





The possibilities are endless with Eagle Polyurethane & Polyester Belting and O-Rings from Fenner Drives. As a world leader in belting, we have a comprehensive range of high quality non-reinforced and reinforced products.

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From light, medium or heavy duty conveying to custom profiles, Fenner Drives has the right product for your application.













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Eagle[®] Non-Reinforced Polyurethane Belting — the proven workhorses for material transfer and light-duty power transmission applications.

- Solid polyurethane construction
- Round, V- and flat profiles
- Excellent abrasion resistance
- Self tensioning no take-ups required
- Easily welded on site with a Fenner Drives Welding Kit

Eagle Clear 85 QC Eagle Red 85 QC Eagle Yellow 85 QC Eagle Clear 85 TOR



Eagle[®] Non-Reinforced Quick-Connect Polyurethane Belting the quick and easy way to avoid conveyor and system downtime; no welding required.

- Ideal quick fixes zero downtime products
- Twisted O-Rings (TOR) ideal fast fit solution for live roller conveyors
- Twisted loop construction packaged with metal hooks. Plastic hooks also available.
- Round hollow construction packaged with metal connectors
- No need to dismantle drive components
- · Custom colours and durometers available to order

Eagle Endless O-Rings and Fabricated Belts

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Eagle[®] Endless O-Rings and Fabricated Belts — let us do the work for you and take the hassle out of fabricating your own endless belts.

- Available in all Eagle Belting colours and durometers except Can Cable
- O-Rings for line shaft, live roller and motion transfer conveyors
- High coefficient of friction
- Elastic with excellent memory
- Popular 1/8", 3/16", 1/4", 5mm and 6mm sizes in stock
- Additional sizes, colours and durometers are made to order
- Rapid order turnaround for all specials

Eagle Opaque 80 R Eagle Hyfen® 85 R Eagle Ivory 85 R Eagle Orange 85 R Eagle Green 89 R Eagle Green 89 RT Eagle Beige 95 R Eagle Hyfen 95 R



Eagle[®] Reinforced Polyurethane Belting — the ideal high-strength, low-stretch choice for longer conveyor lengths, heavier conveyed loads, or medium-duty power transmission applications.

- For more highly loaded applications
- Either polyester cord or tape reinforcement
- High strength low stretch
- Round, V- and Twin V- profiles
- Can be cogged for increased flexibility
- Reinforced belting is not self-tensioning take up the slack with a Fenner Drives T-Max Belt & Chain Tensioner[®]

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Eagle White 40D Eagle Blue 55D



Eagle[®] Polyester Belting — a low-stretch, hard-wearing option. Ideal for conveying heavy or abrasive materials; also for longer conveyor lengths.

- Made from solid polyester
- Low stretch characteristics
- Ideal for longer spans
- Ideal for conveying heavy materials
- · Lower coefficient of friction than polyurethane
- Allows for accumulation while conveying
- Not self-tensioning take up the slack with a Fenner Drives T-Max Belt & Chain Tensioner[®]

Eagle Red 50D CC LCF Eagle Blue 55D CC Eagle Blue 55D Aramid CC Eagle Natural 55D CC Eagle Green 63D CC Eagle Natural 63D CC



Eagle[®] Reinforced Can Cable — when canning lines go down, don't call in the wire splicing team and wait; weld our Can Cables endless in minutes yourself!

- Blue, Green and Natural are 100% polyester reinforced with high tensile cord; Red is a Fenner Drives engineered proprietary polymer blend
- Blue 55D Aramid is 100% polyester with high strength Aramid cord reinforcement
- High performance, low cost alternative to steel cables
- Fast installation a zero downtime product
- · Easily welded endless on site with Fenner Drives Overlap Welding Kit
- Eagle Red 50D has a lower coefficient of friction (LCF)
- Popular 3/8" (9.5mm) diameter cable always in stock
- Other sizes and colours made to order

Eagle Red 85 CXF Eagle Hyfen 85 CXF® Eagle Hyfen 85 CXR®



Eagle[®] Red 85 & Reinforced Hyfen 85 Co-Extruded Polyurethane Belting — provides extra grip and cushioning for flat or inclined conveyors.

- Non-reinforced and reinforced versions
- Ultra-grip co-extruded 60A top surface
- Tough 85A base
- Smooth (CXF) and rough (CXR) top surfaces available
- V- and Twin V- profiles
- Integrally bonded top cannot delaminate
- Outperforms all adhesively bonded special surface belts
- Reinforced belting is not self-tensioning use a T-Max Belt & Chain Tensioner[®] from Fenner Drives

A variety of colours, durometers, and top surfaces are available.



Eagle[®] SuperGrip Top (SGT) Belting — incorporating high grip, low wear top surfaces. Ideally suited for ceramic, wood processing and corrugated conveying applications.

- Polyurethane 80A, 85A, 89A, and 90A base durometers
- Polyester 40D base durometer
- Non-reinforced (SGT) and reinforced (RSGT) versions
- PVC SuperGrip Top for high grip non-abrasive materials
- Polyurethane (PU) SuperGrip Top for heavier duty highly abrasive materials
- Proprietary Thermoplastic Elastomer (TPE) SuperGrip Top with nearly the grip of PVC and the wear of polyurethane
- Integrally bonded top cannot delaminate
- · Custom base and top surfaces available on request
- See page 17 for Fenner Drives' SuperGrip Top product range

Work one on one with our design engineers to develop an optimum solution



Eagle[®] Custom Belting — our product design and engineering teams work with you to develop the correct belt profile and optimum material selection for your specific application.

- Dual durometers a variety of options are available to utilize the best properties of two different polyurethane materials
- · Static dissipative and UV stabilized material options
- Tracking features to fit unique pulleys and drive configurations
- Ridged profiles for reduced product contact surface
- Larger surface areas to lower unit pressure on heavy or sensitive product surfaces

Welding Kits



Cordless belt welding in the palm of your hand!

- Quick, effective welds for Eagle Non-Reinforced polyurethane belting
- Weld anywhere, any time – no plug required during welding
- Four specialty rechargeable batteries and charger included with kit – two to use, and two to spare





KIT Includes: Welder Flat Plate Adapters Professional Battery Charger (4) D Cell NiMH Batteries Blade Release Tape Cutting Shears Flash Cutters Tool Bag

See the video demonstration at www.youtube.com/FennerDrives

BUTT WELDING

- Fast, economical way to join all Eagle Non-Reinforced and some Reinforced polyurethane belting
- Unique, reliable, easy-to-use clamping tool ensures proper belt-end alignment
- 75mm (3") hot knife available for larger profiles
- Available in 115 V or 240 V kits

Kits Include: Hot Knife Large Clamp or Mini Clamp Flash Cutters Cutting Shears Carrying Case



OVERLAP WELDING

- Specifically designed to weld your Eagle Reinforced polyurethane and Can Cable belting
- Strongest weld you can make in the field, yet still flexible
- Proper weld delivers 100% of belts' maximum working load
- Smooth surfaces will not damage transferred product
- Available in 115 V or 240 V kits

Kits Include: Welder Control Box Set of Dies Flash Cutters Cutting Shears Carrying Case



Flash Cutters & Cutting Shears Eagle[®] Belting provides solutions for all sorts of applications in virtually every industry. For inspiration on how we can solve your application problem, here's just a small sampling of our belting products at work. Not sure what you need? Contact us for advice on your specific application.











- 1. Eagle® Hyfen® Ridge-Top on a pop-up diverter conveying wood products.
- 2. Eagle Orange 85 belts conveying pizzas.
- 3. Wood panels being moved by Eagle Opaque 80; chosen for its non-marking characteristics.
- 4. Eagle Hyfen on a tray conveyor system, such as found in cafeterias, hospitals, etc.; chosen for its high strength, low stretch characteristics on long center distances.
- 5. Custom Eagle Blue, approved for direct food contact, used on tomato packaging line.













- 6. Eagle[®] Red 90 moving roofing tile; chosen for its excellent abrasion resistance.
- 7. Eagle Twisted O-Rings easily installed without dismantling line shaft.
- 8. Eagle Orange 85 belts driving the roller conveyor.
- 9. Custom Eagle White profile for pear sorting machine.
- 10. Co-extruded reinforced Eagle Hyfen 85 CXF[®] on conveying system. Lower durometer top surface increases coefficient of friction for excellent grip to convey or move products.
- 11. Eagle Orange 85 on egg conveyor.

16 Product Range

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	Eagle Green 89 SGT PVC																					
	Eagle Red 90 SGT PVC																					
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	Eagle Fabricated Belts	٠	٠	٠	•	٠	٠	٠	٠	•	٠	٠	٠	•	•	٠	٠	٠	٠	٠	٠	

* Eagle Ivory 85 SGT and RSGT available with PVC, PU or TPE top surface.
 [†] Can Cable available in Red 50D LCF, Blue 55D, Blue 55D Aramid, Natural 55D, Green 63D, and Natural 63D.

These belts are manufactured from FDA compliant materials except Eagle Can Cable Red 50D LCF.



Note: Some diameters and cross sections may be subject to minimum orders. Dimensions are for reference only. Flat belting available in Eagle Orange 85; see page 20 for cross sections. Additional cross sections, colours, and durometers are available. Contact Applications Engineering at ae@fennerdrives.com for design assistance.

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Eagle Op	agle Opaque 80		DESCRIPTION Round, Non-	√ Reinforced	\bigcirc	I								
			HARDNESS 80A FDA COMPLI No	ANT	C(St St	DEFFICIEN ainless Stee eel .65 HMW .50	T of Fric I . 75	TION	TEMP -22°F -30°C	ERATURE F to +150°F to +66°C	ANGE			
							Worki	ng Load @	Percent Te	ension			Weight	Weight
Cross Section	Dimen (in)	sions Ø (mm)	Minimum (in)	Pulley Ø (mm)	49 (lbs)	4% (Ibs) (N)		% (N)	8' (Ibs)	% (N)	10 (Ibs))% (N)	per foot (lbs)	per metre (kg)
2mm		2	.56	14	0.2	0.8	0.4	1.8	0.5	2.2	0.6	2.7	.003	.004
3mm		3	.81	21	0.5	2.2	0.8	3.6	1.1	4.9	1.4	6.2	.006	.009
4mm		4	1.19	30	0.8	3.6	1.4	6.2	2.0	8.9	2.5	11.1	.01	.015
5mm		5	1.38	35	1.3	5.8	2.2	9.8	3.1	13.8	3.9	17.3	.02	.03
6mm		6	1.63	42	1.8	8.0	3.0	13.3	4.2	18.6	5.3	23.4	.025	.04
1/4"	1/4	6.3	1.75	44	1.8	8.0	3.0	13.3	4.2	18.6	5.3	23.4	.03	.04
7mm		7	1.93	49	2.6	11.4	4.3	19.1	6.0	26.3	7.6	33.7	.03	.04
8mm		8	2.25	56	3.3	14.7	5.6	24.9	7.8	34.0	9.9	44.0	.04	.06
3/8"	3/8	9.5	2.63	67	4.0	17.6	6.7	29.9	9.4	34.7	11.9	52.7	.06	.09
10mm		10	2.75	70	5.2	23.1	8.8	39.1	12.3	54.7	15.4	68.5	.07	.10
1/2"	1/2	12.5	3.50	89	7.0	31.3	12.0	53.2	16.7	74.4	21.1	93.7	.10	.15
15mm		15	4.13	105	11.6	51.6	19.7	87.6	27.6	122.8	34.7	154.3	.14	.21
18mm		18	5.00	126	16.7	74.3	28.4	126.3	39.7	176.6	50.0	222.4	.22	.33

Eagle	Opaque	80





HARDNESS 80A FDA COMPLIANT COEFFICIENT OF FRICTION Stainless Steel .75 Steel .65 UHMW .50

TEMPERATURE RANGE -22°F to +150°F -30°C to +66°C

							Work	ing Load @	Percent T	ension			Weight	Weight
Cross Section	Dimension (in)	s w x h* (mm)	Minimum (in)	n Pulley Ø	(lbs)	% (NI)	(lbs)	5% (NI)	8 (lbs)	% (NI)	1 (lbs)	0% (NI)	per foot	per metre
Section	(11)	(1111)	(11)	(1111)	(103)	(14)	(103)	(14)	(103)	(14)	(103)	(19)	(IDS)	(кд)
6mm x 4mm		6 x 4	1.10	28	0.8	3.6	1.6	7.1	2.6	12.7	3.6	17.1	.02	.03
8mm x 5mm		8 x 5	1.38	35	1.7	7.6	3.6	16.0	5.7	25.4	7.7	34.2	.02	.03
3L	3/8 x 7/32		1.50	39	2.3	10.2	4.7	20.9	7.5	33.4	10.2	45.4	.03	.05
Z/10		10 x 6.5	1.63	42	2.7	12.0	5.6	24.9	8.9	39.6	12.1	53.8	.05	.07
A/13	1/2 x ⁵ /16	13 x 8	2.25	56	4.2	18.7	8.8	39.1	14.0	62.3	19.0	84.5	.07	.10
B/17	¹¹ / _{16 x} ¹³ / ₃₂	17 x 11.5	3.00	76	7.3	32.5	15.2	67.6	24.2	107.6	32.8	145.9	.11	.16
B/17 Ridge-Top		17 x 19.5	5.50	140	7.3	32.5	15.2	67.6	24.2	107.6	32.8	145.9	.13	.19
C/22	²⁹ / ₃₂ x ¹⁷ / ₃₂	22 x 14.5	3.88	98	12.7	56.5	26.7	118.8	42.5	189.0	57.6	256.2	.19	.28
C/22 Ridge-Top		22 x 24.5	7.75	196	12.7	56.5	26.7	118.8	42.5	189.0	57.6	256.2	.28	.41
C/22 Ridge-Top		22 x 28.5	7.75	196	12.7	56.5	26.7	118.8	42.5	189.0	57.6	256.2	.32	.47

Eagle Orange 85 Eagle Clear 85





HARDNESS 85A FDA COMPLIANT Yes COEFFICIENT OF FRICTION Stainless Steel .70 Steel .60 UHMW .45 TEMPERATURE RANGE -22°F to +150°F -30°C to +66°C

							Work	ring Load @	Percent 1	Tension				
Cross Section	Dimer (in)	nsions Ø (mm)	Minimur (in)	n Pulley Ø (mm)	4 (lbs)	% (N)	(lbs)	5% (N)	(lbs)	3% (N)	1 (lbs)	0% (N)	Weight per foot (lbs)	Weight per metre (kg)
2mm		2	.63	16	0.2	0.9	0.3	1.3	0.4	1.8	0.5	2.2	.003	.004
3/32"	3/32		.75	19	0.2	0.9	0.3	1.3	0.4	1.8	0.5	2.2	.004	.006
3mm		3	.94	24	0.5	2.2	0.7	3.1	1.0	4.4	1.2	5.3	.006	.009
4mm		4	1.25	32	0.8	3.6	1.2	5.3	1.6	7.1	1.9	8.5	.01	.015
3/16"	3/16		1.50	38	1.1	4.9	1.7	7.6	2.2	9.8	2.7	12.0	.01	.015
5mm		5	1.56	40	1.2	5.3	1.8	8.0	2.4	10.7	3.0	13.3	.02	.03
6mm		6	1.88	48	1.7	7.6	2.6	11.6	3.5	15.6	4.3	19.1	.025	.04
1/4"	1/4	6.3	2.00	51	1.9	8.5	2.9	12.9	3.9	17.3	4.8	21.4	.03	.04
7mm		7	2.20	56	2.4	10.4	3.6	16.1	4.8	21.4	6.0	26.5	.03	.04
5/16"	5/ ₁₆		2.50	64	3.0	13.3	4.6	20.5	6.1	27.1	7.6	33.8	.04	.06
8mm		8	2.50	64	3.0	13.3	4.6	20.5	6.1	27.1	7.6	33.8	.04	.06
3/8"	3/8	9.5	3.00	76	4.3	19.1	6.6	29.4	8.8	39.1	10.9	48.5	.06	.09
10mm		10	3.13	80	4.7	20.9	7.3	32.5	9.7	43.1	12.0	53.4	.07	.10
12mm		12	3.75	96	6.8	30.5	10.6	47.3	14.1	62.9	17.4	77.4	.09	.13
1/2"	1/2	12.5	4.00	102	7.6	33.8	11.8	52.5	15.7	69.8	19.3	85.8	.10	.15
9/16"	9/16		4.50	114	9.7	43.1	14.9	66.3	19.9	88.5	24.5	109.0	.13	.19
5/8"	5/8		5.00	127	11.9	52.9	18.4	81.8	24.5	109.0	30.2	134.3	.16	.24
3/4"	3/4		6.00	152	17.7	78.7	26.5	117.9	35.3	157.0	43.5	193.5	.23	.34
6mm 1/4" 7mm 5/16" 8mm 3/6" 10mm 10mm 12mm 1/2" 9/16" 5/8" 3/4"	1/4 5/16 3/8 1/2 9/16 5/8 3/4	6 6.3 7 8 9.5 10 12 12.5	1.88 2.00 2.20 2.50 3.00 3.13 3.75 4.00 4.50 5.00 6.00	48 51 56 64 64 76 80 96 102 114 127 152	1.7 1.9 2.4 3.0 4.3 4.7 6.8 7.6 9.7 11.9 17.7	7.6 8.5 10.4 13.3 19.1 20.9 30.5 33.8 43.1 52.9 78.7	2.6 2.9 3.6 4.6 6.6 7.3 10.6 11.8 14.9 18.4 26.5	11.6 12.9 16.1 20.5 29.4 32.5 47.3 52.5 66.3 81.8 117.9	3.5 3.9 4.8 6.1 6.1 8.8 9.7 14.1 15.7 19.9 24.5 35.3	15.6 17.3 21.4 27.1 27.1 39.1 43.1 62.9 69.8 88.5 109.0 157.0	4.3 4.8 6.0 7.6 7.6 10.9 12.0 17.4 19.3 24.5 30.2 43.5	19.1 21.4 26.5 33.8 33.8 48.5 53.4 77.4 85.8 109.0 134.3 193.5	.025 .03 .03 .04 .04 .04 .06 .07 .09 .10 .13 .16 .23	

Eagle Orange 85 Eagle Clear 85		DESCRIPTION Trapezoidal, Vee	T-Top Crown-	Top Twin	7 Co-Ridge-Top Ri	idge-Top Hi-Ridge-Top	AA / BB Ribbec	Wing-Top
		Hardness 85A FDA COMPLIANT Yes	COEFFICIENT Stainless Steel Steel .60 UHMW .45	OF FRICTION	TEMPERATURE -22°F to +150°F -30°C to +66°C	RANGE		
				Working Load	Percent Tension		Weight	Weight
Cross Section	Dimensions w x h* (in) (mm)	Minimum Pulley Ø (in) (mm)	4% (Ibs) (N)	6% (Ibs) (N)	8% (Ibs) (N)	10% (Ibs) (N)	per foot (lbs)	per metre (kg)
		4.95 99						

6mm x 4mm		6 x 4	1.25	32	0.9	4.0	1.6	7.1	2.2	9.8	2.8	12.5	.02	.03
3L	³ /8 x ⁷ /32		1.75	45	2.2	9.8	3.7	16.5	5.2	23.1	6.5	28.9	.03	.04
3L T-Top	9/16 x ¹⁹ /64		2.38	60	3.2	14.2	5.5	24.5	7.7	34.2	9.7	43.1	.05	.07
3L Crown-Top	9/16 x 1/4		2.00	51	3.2	14.2	5.5	24.5	7.7	34.2	9.7	43.1	.05	.07
3L Twin	¹⁵ / _{16 x} 17/ ₆₄		2.13	54	6.1	27.1	10.3	45.8	14.5	64.5	18.4	81.8	.10	.15
Z/10		10 x 6.5	1.88	48	2.4	10.7	4.1	18.2	5.8	25.8	7.3	32.5	.05	.07
A/13	1/2 x 5/16	13 x 8	2.50	64	4.0	17.8	6.8	30.2	9.6	42.7	12.2	54.3	.07	.10
A/13 Lo-Ridge-Top	1/2 x 7/16		2.50	64	4.0	17.8	6.8	30.2	9.6	42.7	12.2	54.3	.07	.10
A/13 Ridge-Top		13 x 16	5.00	127	4.0	17.8	6.8	30.2	9.6	42.7	12.2	54.3	.09	.13
A/13 Hi-Ridge-Top	1/2 x 5/8		5.00	127	6.7	29.8	11.3	50.3	15.9	70.7	20.1	89.4	.09	.13
A Twin	1 ³ /16 x ⁵ /16		2.50	64	8.2	36.5	14.0	62.3	19.6	87.2	24.8	110.3	.15	.22
AA	1/2 x ¹³ /32		3.25	83	5.8	25.8	9.8	43.6	13.7	60.9	17.4	77.4	.09	.13
B/17	¹¹ / _{16 x} ¹³ / ₃₂	17 x 11.5	3.25	83	7.0	31.1	11.8	52.5	16.6	73.8	21.0	93.4	.11	.16
B/17 Ribbed	¹¹ / _{16 x} ¹³ / ₃₂		3.25	83	7.0	31.1	11.8	52.5	16.6	73.8	21.0	93.4	.11	.16
B/17 Wing-Top	¹¹ / _{16 x} 5/ ₈		3.25	83	7.0	31.1	11.8	52.5	16.6	73.8	21.0	93.4	.11	.16
BB	¹¹ / _{16 x} 9/ ₁₆		4.25	108	8.8	39.1	14.9	66.3	20.9	93.0	26.5	117.9	.16	.24
C/22	29/32 x 17/32	22 x 14.5	4.50	114	12.1	53.8	20.6	91.6	28.9	128.5	36.6	162.8	.19	.28
C/22 Ribbed	29/32 x 17/32		4.50	114	12.1	53.8	20.6	91.6	28.9	128.5	36.6	162.8	.19	.28
D/32 Ribbed	1 ⁵ /16 x ³ /4		7.00	178	25.2	112.1	42.7	189.9	59.9	266.4	75.8	337.2	.38	.57
E/42 Ribbed	1 ¹¹ /16 x 1 ³ /32		15.00	381	47.8	212.6	81.1	360.7	113.9	505.9	144.0	640.5	.71	1.06

For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.

* w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface. Dimensions are for reference only.



20

DESCRIPTION Flat, Non-Reinforced

HARDNESS 85A

Yes



FDA COMPLIANT

COEFFICIENT OF FRICTION Stainless Steel .70 Steel .60 UHMW .45

TEMPERATURE RANGE -22°F to +150°F -30°C to +66°C

						Work		Weight	Weight				
Cross Section	Dimensions w x h* (in)	Minimur (in)	m Pulley Ø (mm)	4 (lbs)	% (N)	6 (lbs)	% (N)	8 (Ibs)	% (N)	1((lbs))% (N)	per foot (lbs)	per metre (kg)
.055"x.375"	³ / _{8 ×} ⁷ / ₁₂₈	.38	10	0.9	3.9	1.3	5.8	1.7	7.6	2.1	9.3	.01	.015
.062"x.500"	1/2 x 1/16	.50	13	1.3	5.9	2.0	8.8	2.6	11.5	3.1	13.9	.02	.03
.062"x.750" **	³ / _{4 ×} ¹ / ₁₆	1.00	25	2.0	8.8	3.0	13.2	3.9	17.2	4.7	20.9	.03	.04
.062"x1.50"	1 1/2 x 1/16	.50	13	4.0	17.6	5.9	26.4	7.8	34.5	9.4	41.8	.05	.07
.062"x1.75"	1 ³ /4 x ¹ /16	.50	13	4.6	20.5	6.9	30.8	9.0	40.2	11.0	48.8	.06	.09
.062"x2.00"	2 x 1/16	.50	13	5.3	23.5	7.9	35.2	10.3	46.0	12.5	55.8	.07	.10
.062"x3.00"	3 x 1/16	.50	13	7.9	35.2	11.9	52.7	15.5	68.9	18.8	83.7	.10	.15
.125"x.625"	5/8 x 1/8	1.00	25	3.3	14.8	5.0	22.2	6.5	29.0	7.9	35.1	.04	.06
.125"x1.00"	1 x 1/8	1.00	25	5.3	23.6	8.0	35.4	10.4	46.3	12.6	56.2	.07	.10
.250"x.625"	5/8 x 1/4	2.00	51	6.6	29.6	10.0	44.3	13.0	57.9	15.8	70.3	.08	.12
.078"x.750"	3/4 x 5/64	.63	16	2.5	11.1	3.7	16.6	4.9	21.7	5.9	26.3	.03	.04
.090"x1.00"	1 x ³ /32	.75	19	3.8	17.0	5.7	25.5	7.5	33.4	9.1	40.5	.05	.07
.090"x1.25"	1 ¼ x ³ /32	.75	19	4.8	21.3	7.2	31.9	9.4	41.7	11.4	50.6	.06	.09
.090"x1.50"	1 1/2 x 3/32	.75	19	5.7	25.5	8.6	38.3	11.3	50.0	13.7	60.7	.07	.10
.090"x2.00"	2 x ³ /32	.75	19	7.7	34.1	11.5	51.0	15.0	66.7	18.2	81.0	.09	.13

**belt has .156" radius guide.

A/13

B/17

C/22

Eagle	Red	85	CXF
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Steel 60 UHMW .45

Add 2.5mm nominal to listed height for total belt height.

COEFFICIENT OF FRICTION Stainless Steel .70

TEMPERATURE RANGE -22°F to +150°F -30°C to +66°C

(kg)

.10

.16

.28

No Working Load @ Percent Tension Weight per foot (lbs) Weight per metre Minimum Pulley Ø (in) (mm) Dimensions w x h^{\star} 4% 6% 8% 10% Section (lbs) (N) (lbs) (N) (lbs) (lbs) (N) (mm) (in) 1/2 x 5/16 3.00 4.7 20.9 7.4 32.9 10.1 44 9 12.5 .07 13 x 8 76 55.6 ¹¹/₁₆ x ¹³/₃₂ 17 x 11.5 4.00 102 8.0 35.6 12.6 56.0 17.1 76.1 21.4 95.2 .11 29/32 x 17/32 22 x 14.5 5.00 127 14.0 62.3 22.1 98.3 30.0 133.4 37.4 166.4 .19

Eagle Clear 85 QC Eagle Red 85 QC **Eagle Yellow 85 QC**



DESCRIPTION

HARDNESS

85A Base, 60A Top

FDA COMPLIANT

Trapezoidal, Non-Reinforced

with Co-Extruded Flat Top

FDA COMPLIANT Yes

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COEFFICIENT OF FRICTION Stainless Steel .70 Steel .60 UHMW .45

TEMPERATURE RANGE -22°F to +150°F -30°C to +66°C

						Worki	ng Load @	Percent Te	ension			Weight	Weight
Cross Section	Dimensions O.D. x I.D. [†] (inches or mm)	Minimun (in)	n Pulley Ø (mm)	4 (lbs)	% (N)	60 (Ibs)	% (N)	8 ¹ (lbs)	% (N)	10 (Ibs)	0% (N)	per foot (lbs)	per metre (kg)
3/16"	.1875" x .080"	2.00	51	0.5	2.2	0.7	3.1	0.9	4.0	1.1	4.9	.01	.015
5mm	5mm x 2mm	2.00	51	0.5	2.2	0.7	3.1	0.9	4.0	1.1	4.9	.01	.015
6mm	6mm x 2.5mm	2.50	64	0.8	3.6	1.3	5.8	1.7	7.6	2.1	9.3	.02	.03
1/4"	.25" x .098"	2.50	64	0.8	3.6	1.3	5.8	1.7	7.6	2.1	9.3	.02	.03
5/16"	.3125" x .126"	3.00	76	1.3	5.8	2.0	8.9	2.7	12.0	3.3	14.7	.03	.04
8mm	8mm x 3.2mm	3.00	76	1.3	5.8	2.0	8.9	2.7	12.0	3.3	14.7	.03	.04
3/8"	.375" x .152"	3.50	89	1.8	8.0	2.9	12.9	3.8	16.9	4.7	20.9	.05	.07
10mm	10mm x 3.8mm	3.50	89	1.8	8.0	2.9	12.9	3.8	16.9	4.7	20.9	.05	.07
12mm	12mm x 5.2mm	3.75	95	3.3	14.7	5.1	22.7	6.8	30.2	8.4	37.4	.09	.13
1/2"	.500" x .214"	4.50	114	3.3	14.7	5.1	22.7	6.8	30.2	8.4	37.4	.09	.13
13mm	13mm x 5.2mm	4.50	114	3.3	14.7	5.1	22.7	6.8	30.2	8.4	37.4	.09	.13
5/8"	.625" x .273"	5.50	140	5.0	22.2	7.7	34.2	10.3	45.8	18.6	82.7	.13	.19
16mm	16mm x 6.8mm	5.50	140	5.0	22.2	7.7	34.2	10.3	45.8	18.6	82.7	.13	.19

† O.D. is the outer diameter of the belt. I.D. is the inner diameter of the belt.

Technica

Те	echni	ical	Dat	a														2
Eagle I Eagle I	vory 85 vory 85	SGT	DE Tra SG	SCRIPTIO pezoidal, I T with Inte	N Non–Reinforce egrally Bonded	d Top	Vee	Vee – So	¶ ← non Ada GT heig	ninal 5mn 15mm no ht for toto	n minal to al belt hei	listed ght.						
			HAI 854	RDNESS A; SGT wit	h 50A PVC To 55A TPE To 70A PU Top	ip, p or	FDA CO No	MPLIANT		CC Sta Ste UH	DEFFICIEN inless Ste el .60 IMW .45	NT OF FR	ICTION	TEM -22°F -30°C	PERATURE F to +150°F to +66°C	RANGE		
			Minimum F	Pulley Ø	Minimum I	Pulley Ø			Working	Load @ I	Percent T	ension			Weia	ht	Weiał	ht
Cross Section	Dimension (in)	ıs w x h* (mm)	(in) (Ivory 85)	(SGT)	(mm (Ivory 85)	ı) (SGT)	40 (lbs)	% (N)	60 (lbs)	% (N)	80 (Ibs)	% (N)	10 (Ibs)	% (N)	per foot (Ivory 85)	(lbs) (SGT)	per metre (Ivory 85)	e (kg) (SGT)
8mmx5mm		8 x 5	1.88	-	48	-	4.4	19.5	6.7	29.7	8.8	39.1	10.6	47.3	.02	-	.03	-
Z/10		10 x 6.5	2.00	_	52	-	7.1	31.7	10.9	48.4	14.3	63.7	17.3	77.0	.05	_	.07	_
A/13	1/2 x 5/16	13 x 8	2.50	3.00	64	76	11.4	50.7	17.4	77.4	22.9	101.9	27.7	123.2	.07	.08	.10	.12
B/17	¹¹ / _{16 x} ¹³ / ₃₂	17 x 11.5	3.60	4.10	92	104	20.2	89.8	30.9	137.4	40.6	180.6	49.1	218.4	.11	.12	.16	.18
C/22	29/32 x 17/32	22 x 14.5	4.50	5.00	116	127	33.5	149.0	51.1	227.3	67.1	298.5	81.3	361.6	.19	.20	.28	.30

Eagle Gr Eagle Gr	een 89 een 89 T	DESCRIPTIC Round, Smo Non-Reinfor	N oth or Textured, rced	(С								
		HARDNESS 89A FDA COMP No	LIANT	Ci St Ul	DEFFICIENT ainless Stee eel .55 HMW .40	f of Frict I .65	ION	COEFFI (Texture Stainless Steel .40 UHMW	CIENT OF ed) 5 Steel .50 0	FRICTION	T -2 -3	EMPERATURE RAN 22°F to +150°F 30°C to +66°C	√GE
Cross	Dimensions (A	Minimum	- Bullow Ø		v. I	Worki	ng Load @	Percent Te	nsion	10	0/	Weight	Weight
Section	(mm)	(in)	(mm)	(lbs)	″° (N)	(lbs)	(N)	(lbs)	″° (N)	(lbs)	% (N)	per foot (lbs)	per metre (kg)
2mm	2	.75	19	0.2	0.9	0.4	1.8	0.5	2.2	0.7	3.1	.003	.004
3mm	3	1.00	27	0.6	2.7	0.9	4.0	1.2	5.3	1.5	6.7	.006	.009
4mm	4	1.44	36	1.0	4.4	1.6	7.1	2.1	9.3	2.6	11.6	.01	.015
5mm	5	1.75	45	1.5	6.7	2.4	10.7	3.3	14.7	4.1	18.2	.02	.03
6mm	6	2.13	54	2.2	9.8	3.5	15.6	4.7	20.9	5.9	26.2	.025	.04
7mm	7	2.50	63	3.0	13.3	4.7	20.9	6.4	28.5	8.0	35.6	.03	.04
8mm	8	2.83	72	3.9	17.3	6.2	27.6	8.4	37.4	10.4	46.3	.04	.06
10mm	10	3.50	90	6.1	27.1	9.7	43.1	13.1	58.3	16.3	72.5	.07	.10
12mm	12	4.25	108	8.7	38.7	13.9	61.8	18.9	84.1	23.5	104.5	.09	.13
15mm	15	5.25	135	13.6	60.5	21.7	96.5	29.6	131.7	36.6	162.8	.14	.21
18mm	18	6.38	162	18.8	83.6	30.9	137.4	42.5	189.0	53.0	235.7	.22	.33
20mm	20	7.00	180	23.2	103.2	38.2	169.9	52.4	233.1	65.5	291.3	.23	.34

Eagle G Eagle G	ireen 8 ireen 8	9 9 SGT	DE Tra SG	SCRIPTIOI pezoidal, I T With Inte	N Non–Reinforcec egrally Bonded	I Гор	Vee	Ridg	 ge-Top	Vee - So	ç←na Aa GT he	ominal 5 i Id 5 mm i ight for to	nm nominal t otal belt i	o listed height.				
			HA 89, FD, No	RDNESS <mark>A; SGT wi</mark> i A COMPL	th 50A PVC To IANT	D	COEFFICI Stainless S Steel .55 UHMW .4	ENT OF F Gteel .65	RICTION	-	EMPERA 22°F to - 30°C to	ATURE RA ⊧150ºF +66ºC	NGE					
C	D		Minimum	Pulley Ø	Minimum P	ulley Ø		0/	Working	g Load @	Percent	Tension	1	201	Weigh	nt	Weigl	nt
Section	Dimension (mn	swxn" n)	(In) (Green 89)	(SGT)	(mm) (Green 89)	(SGT)	4 (lbs)	% (N)	(lbs)	% (N)	(lbs)	3% (N)	(lbs)	J% (N)	per foot (Green 89)	(lbs) (SGT)	per metre (Green 89)	e (kg) (SGT)
Z/10		10 x 6.5	2.30	-	59	-	11.9	52.9	18.2	80.9	23.8	105.9	28.7	127.7	.05	-	.07	-
A/13	1/2 x ⁵ /16	13 x 8	2.80	3.30	72	84	20.5	91.2	31.3	139.2	41.0	182.4	49.5	220.2	.07	.08	.10	.12
A/13 Ridge-Top		13 x 16	5.70	-	144	-	20.5	91.2	31.3	139.2	41.0	182.4	49.5	220.2	.09	_	.13	-
B/17	¹¹ / _{16 x} ¹³ / ₃₂	17 x 11.5	4.10	4.60	104	117	36.4	161.9	55.6	247.3	72.7	323.4	87.7	390.1	.11	.12	.16	.18
B/17 Ridge-Top)	17 x 19.5	7.00	-	180	-	36.4	161.9	55.6	247.3	72.7	323.4	87.7	390.1	.13	-	.19	-
C/22	²⁹ / ₃₂ x ¹⁷ / ₃₂	22 x 14.5	5.10	5.60	130	142	61.7	274.4	94.3	419.4	123.4	548.9	148.8	661.9	.19	.20	.28	.30
C/22 Ridge-Top)	22 x 24.5	8.70	-	220	-	61.7	274.4	94.3	419.4	123.4	548.9	148.8	661.9	.28	-	.41	-
C/22 Ridge-Top)	22 x 28.5	8.70	-	220	-	61.7	274.4	94.3	419.4	123.4	548.9	148.8	661.9	.32	-	.47	_

For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.

* w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface. Dimensions are for reference only.

22

Eagle R	ed 90		DESCRIPT Round, N	TON on-Reinforced	(\supset								
			HARDNE 90A FDA CON No	SS NPLIANT	S S L	COEFFICIEN Stainless Ste Steel .50 JHMW .38	IT OF FRIC el .60	TION	TEMP -22⁰F -30℃	ERATURE I to +150°F to +66°C	RANGE			
Cross Section	Dime (in)	nsions Ø (mm)	Minimu (in)	m Pulley Ø (mm)	4 (lbs)	% (N)	Work 6 (lbs)	ing Load @ % (N)	Percent T	ension % (N)	(lbs)	0% (N)	Weight per foot (lbs)	Weight per metre (kg)
2mm		2	.75	20	1.1	4.7	1.5	6.7	1.9	8.5	2.2	9.9	.003	.004
3mm		3	1.19	30	2.4	10.5	3.4	15.2	4.3	19.1	5.0	22.3	.006	.009
4mm		4	1.56	40	4.2	18.7	6.1	26.9	7.6	33.9	8.9	39.7	.01	.015
5mm		5	1.88	47	6.0	26.5	8.6	38.2	10.8	48.1	12.6	56.2	.01	.015
1/4"	1/4	6.3	2.75	70	10.6	47.1	15.3	67.9	19.2	85.4	22.5	100.0	.03	.04
7mm		7	2.75	70	13.7	61.0	19.8	87.8	24.9	110.5	29.1	129.4	.03	.04
8mm		8	3.13	80	16.8	74.8	24.2	107.7	30.5	135.6	35.7	158.7	.04	.06
3/8"	3/8	9.5	3.75	95	23.8	106.0	34.3	152.7	43.2	192.2	50.6	224.9	.06	.09
10mm		10	3.94	100	28.9	123.1	39.9	177.4	50.2	223.3	58.8	261.3	.07	.10
12mm		12	4.72	120	37.8	168.3	54.5	242.5	68.6	305.2	80.3	357.2	.09	.14
1/2"	1/2	12.5	5.00	127	42.4	188.5	61.0	271.5	76.8	341.7	89.9	399.9	.10	.15
9/16"	9/16		5.63	143	50.8	225.7	73.1	352.2	92.0	409.2	107.7	478.9	.13	.19
15mm		15	5.90	150	59.1	262.9	85.2	378.8	107.2	476.7	125.4	557.8	.14	.21

Eagle	Red	90	
Eagle	Red	90	SGT

10

15

3.90

5.90

100

150

21.2

47.8

Cross Section 8mmx5mm Z/10 A/13

B/17

C/22

10mm

15mm

DESCRIPTION Trapezoidal, Non–Reinforced; SGT with Integrally Bonded Top

Vee

É -nominal 5mm Vee – SGT

Add 5 mm nominal to listed height for total belt height.

HARDNESS 90A; SGT with 50A PVC Top

COEFFICIENT OF FRICTION Stainless Steel .60 Steel 50

TEMPERATURE RANGE -22°F to +150°F -30°C to +66°C

			FDA COI No	MPLIAN I		UHM	.30 W .38			-30 C	10 +00 0	-					
		Minimum	Pulley Ø	Minimum	Pulley Ø			Working	Load @	Percent T	ension			Weic	iht	Weid	iht
Dimension	nswxh*	(in (Red 90)) (SCT)	(mn	n) (SCT)	4 (lbc)	% (NI)	(lbc)	% (NI)	8 (lbc)	% (NI)	10 (lbc)	% (NI)	per fool	t (lbs)	per metr	e (kg)
(0.1)	(())))	(ited 90)	(301)	(Neu 90)	(301)	(105)	(13)	(105)	(14)	(103)	(19)	(105)	(14)	(Red 90)	(SGT)	(Red 90)	(SGT)
	8 x 5	2.00	_	50	-	9.5	42.1	15.0	66.8	19.9	88.7	24.0	106.9	.02	-	.03	-
	10 x 6.5	2.50	-	65	-	14.8	65.8	23.4	104.3	31.1	138.5	37.5	167.0	.05	_	.07	-
1/2 x 5/16	13 x 8	3.13	4.13	80	105	24.1	107.0	38.1	169.5	50.6	225.3	61.0	271.5	.07	.08	.10	.12
¹¹ / ₁₆ x ¹³ / ₃₂	17 x 11.5	4.50	5.50	115	140	43.9	195.2	69.5	309.3	92.4	411.0	111.3	495.3	.11	.12	.16	.18
29/32 x 17/32	22 x 14.5	5.75	6.75	145	172	72.2	321.2	114.4	508.9	152.0	676.2	183.2	814.9	.19	.20	.28	.30

Eagle B	eige 95	DESCRIPT Round, No	ION on-Reinforced	(\supset								
		HARDNES 95A FDA CON Yes	SS IPLIANT	C S S L	COEFFICIEN tainless Ste teel .45 JHMW .35	NT OF FRIC	TION	TEMP -22⁰F -30℃	PERATURE I to +150°F to +66°C	RANGE			
						Worki	ing Load @	Percent 7	Fension			Weight	Weight
Cross Section	Dimensions Ø (mm)	Minimui (in)	m Pulley Ø (mm)	4 (lbs)	% (N)	6 (lbs)	% (N)	(lbs)	8% (N)	(lbs)	0% (N)	per foot (lbs)	per metre (kg)
5mm	5	2.00	50	5.3	23.6	7.5	33.4	9.4	41.8	11.0	48.8	.02	.03
8mm	8	3.10	80	13.6	60.5	19.2	85.6	24.0	106.9	28.1	125.1	.04	.06

94.5

212.5

30.1

67.7

133.8

301.0

37.6

84.5

167.1

375.9

43.9

98.8

195.4

439.6

.07

.14

.10

.21

Eagle B	leige 95		DESCRIPTIC Trapezoidal Non-Reinfo	NN , prced	7	 Vee								
			HARDNESS 95A FDA COMF Yes	PLIANT	C S S U	COEFFICIEN tainless Stee teel .45 JHMW .35	T OF FRIC 21.55	TION	TEMPI -22°F 1 -30°C	ERATURE R to +150°F to +66°C	ANGE			
							Work	ing Load @	Percent 1	ension	1		Weight	Weight
Cross Section	Dimensio (in)	ns w x h* (mm)	Minimun (in)	n Pulley Ø (mm)	4 (lbs)	(N)	6 (lbs)	" (N)	(lbs)	3% (N)	10 (lbs))% (N)	per foot (Ibs)	per metre (kg)
A/13	1/2 x ⁵ /16	13 x 8	3.10	80	16.8	74.7	25.2	112.1	32.5	144.6	38.9	173.0	.07	.10
B/17	¹¹ / _{16 x} ¹³ / ₃₂	17 x 11.5	4.50	115	29.9	133.0	44.6	197.9	57.7	256.6	69.1	307.4	.11	.16
C/22	²⁹ / ₃₂ x ¹⁷ / ₃₂	22 x 14.5	5.70	145	49.4	219.7	73.9	328.7	95.4	424.3	114.3	508.4	.19	.28
Eagle Clear 95			DESCRIPTIC Round, Nor HARDNESS 95A FDA COMP Yes	DN Reinforced ; PLIANT	C S S U	COEFFICIEN tainless Stee teel .45 JHMW .35	T OF FRIC	TION	TEMPI -22ºF -30°C	ERATURE R. to +150°F to +66°C	ANGE			
Cross	Dimen	sions Ø	Minimun	n Pullev Ø		10/6	Work	ing Load @	Percent	ension	10		Weight	Weight
Section	(in)	(mm)	(in)	(mm)	(lbs)	(N)	(lbs)	(N)	(lbs)	(N)	(lbs)	(N)	(lbs)	(kg)
3/32"	3/32		1.00	25	0.7	3.1	1.2	5.3	1.5	6.7	1.9	5.3	.004	.006
1/8"	1/8		1.25	32	0.9	4.0	1.4	6.2	1.7	7.6	2.1	6.2	.01	.015
3/16"	3/16		1.88	48	2.0	8.9	3.0	13.3	3.9	17.3	4.6	13.3	.01	.015
1/4"	1/4	6.3	2.50	64	3.6	16.0	5.4	24.0	6.9	30.7	8.2	24.0	.03	.04
5/16"	5/16		3.13	79	5.7	25.4	8.4	37.4	10.8	48.0	12.9	37.4	.04	.06
3/8"	3/8	9.5	3.75	95	8.2	36.5	12.1	53.8	15.6	69.4	18.5	53.8	.06	.09
1/2"	1/2	12.5	5.00	127	14.5	64.5	21.6	96.1	27.7	123.2	32.9	96.1	.10	.15
9/16"	9/16		5.63	143	18.4	81.8	27.3	121.4	35.0	155.7	41.7	121.4	.13	.19
5/8"	5/8		6.25	159	22.7	101.0	33.7	149.9	43.3	192.6	51.4	149.9	.16	.24
3/4"	3/4		7.50	190	32.7	145.4	48.5	215.7	62.3	277.1	74.1	215.7	.23	.34

Eagle Clear 95	DESCRIPTION Trapezoidal, Non-Reinforced	Vee T-Top Twin Lo-Ridge-Top Hi-Ridge-Top AA / BB Ribbed	
	HARDNESS 95A	COEFFICIENT OF FRICTION TEMPERATURE RANGE Stainless Steel .55 -22°F to +150°F	
	FDA COMPLIANT Yes	Steel .45 -30°C to +66°C UHMW .35	

							Work	ing Load (Percent 1	Tension			Weight	Weight
Cross Section	Dimension (in)	is w x h* (mm)	Minimur (in)	n Pulley Ø	(lbs)	1% (N)	(lbs)	0% (N)	{ (lbs)	3% (N)	(lbs)	0% (N)	per foot	per metre
Section	(")	(1111)	(11)	(1111)	(103)	(1)	(103)	(1)	(103)	(1)	(103)	(1)	(IDS)	(K <u>G</u>)
3L	3/8 x //32		2.19	56	4.1	18.2	6.6	29.4	8.9	39.6	10.8	48.0	.03	.04
3L T-Top	9/16 x ¹⁹ /64		2.50	64	6.1	27.1	9.9	44.0	13.3	59.2	16.2	72.1	.05	.07
3L Twin	¹⁵ / _{16 x} ¹⁷ / ₆₄		2.50	64	11.4	50.7	18.6	82.7	25.0	111.2	30.5	135.7	.10	.15
A/13	1/2 x ⁵ /16	13 x 8	3.13	79	7.6	33.8	12.3	54.7	16.6	73.8	20.2	89.8	.07	.10
A/13 Lo-Ridge-Top	1/2 x 7/16		3.13	79	7.6	33.8	12.3	54.7	16.6	73.8	20.2	89.8	.07	.10
A/13 Hi-Ridge-Top	1/2 x 5/8		6.00	152	12.5	55.6	20.3	90.3	27.4	121.9	33.4	148.6	.09	.13
A Twin	1 ³ /16 x ⁵ /16		3.13	79	15.4	68.5	25.1	111.6	33.8	150.3	41.2	183.3	.15	.22
AA	1/2 x ¹³ /32		4.13	105	10.8	48.0	17.6	78.3	23.7	105.4	28.8	128.1	.09	.13
B/17	¹¹ / _{16 x} ¹³ / ₃₂	17 x 11.5	4.13	105	13.1	58.3	21.3	94.7	28.6	127.2	34.8	154.8	.11	.16
BB	¹¹ / _{16 x} 9/ ₁₆		5.63	143	16.5	73.4	26.8	119.2	36.1	160.6	44.0	195.7	.16	.24
C/22	29/32 x 17/32	22 x 14.5	5.38	136	22.7	101.0	37.0	164.6	49.8	221.5	60.7	270.0	.19	.28
D/32 Ribbed	1 ⁵ /16 x ³ /4		8.50	216	47.1	209.5	76.8	341.6	103.3	459.5	125.9	560.0	.38	.57

For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com.

* w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface. Dimensions are for reference only.

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Eagle White 40D Eagle White 40D SGT

DESCRIPTION Trapezoidal, Non–Reinforced; SGT with Integrally Bonded Top



-nominal 5mm Add 5mm nominal to listed Vee – SGT height for total belt height.

MATERIAL/HARDNESS 40D Polyester; SGT with 50A PVC Top

FDA COMPLIANT White 40D Only; Not SGT

COEFFICIENT OF FRICTION Stainless Steel .55 Steel .45 **UHMW .35**

TEMPERATURE RANGE -22°F to +176°F -30°C to +80°C

TEMPERATURE RANGE (SGT)

-22°F to +150°F -30°C to +66°C

			Minimum PL	illey Ø	Minimum PL	illey 🖉 🛛			working	Load @	Percent	l ension			Weight	t	Weiah	t
Cross	Dimensior	ıs w x h*	(in)		(mm)		4	%	6	%	8	%	10	%	per foot (bs)	per metre	(ka)
Section	(in)	(mm)	(White 40D)	(SGT)	(White 40D)	(SGT)	(Ibs)	(N)	(lbs)	(N)	(lbs)	(N)	(lbs)	(N)	(White 40D)	(SGT)	(White 40D)	(SGT)
8mmx5mm		8 x 5	2.60	-	65	_	6.3	28.0	10.8	48.0	14.8	65.8	18.3	81.4	.02	-	.03	-
Z/10		10 x 6.5	3.10	_	80	_	9.4	41.8	16.1	71.6	22.2	98.7	27.4	121.9	.05	_	.07	-
A/13	1/2 x ⁵ /16	13 x 8	4.00	4.50	102	114	15.7	69.8	26.9	120.0	37.0	164.6	45.8	203.7	.13	.08	.19	.12
B/17	¹¹ / ₁₆ x ¹³ / ₃₂	17 x 11.5	5.50	6.50	140	165	27.1	120.5	46.4	206.4	64.0	284.7	79.1	351.8	.19	.12	.28	.18
C/22	²⁹ / ₃₂ x ¹⁷ / ₃₂	22 x 14.5	7.00	7.50	178	191	47.3	210.4	80.8	359.4	111.4	495.5	137.8	612.9	.28	.20	.42	.30

Eagle Bl	Dimensions Ø Minimum Pulley (in) 1.50 38 4 2.00 51		TON on-Reinforced	(\supset								
		MATERIA Polyester	L	F 5 1	HARDNESS 5 D DA COMP No	PLIANT		COEF Stainle Steel . UHM	FICIENT OF ess Steel .50 40 W .30	FRICTION	4	TEMPERATURE RAI -22°F to +176°F -30°C to +80°C	NGE
Grace	Dimensions (A	A diminour	m Bullov Ø		04	Work	ting Load @	Percent T	ension	1	004	Weight	Weight
Section	(mm)	(in)	Minimum Pulley Ø (in) (mm)	(lbs)	%) (N)	(lbs)	(N)	(lbs)	(N)	(lbs)	(N)	per foot (lbs)	per metre (kg)
3mm	3	1.50	38	3.5	15.7	5.4	24.2	7.1	31.4	8.4	37.3	.006	.009
4mm	4	2.00	51	6.3	28.0	9.7	43.0	12.6	55.9	14.9	66.2	.01	.015
5mm	5	2.50	64	9.8	43.7	15.1	67.2	19.6	87.3	23.3	103.5	.015	.025
6mm	6	3.00	76	14.1	62.9	21.8	96.8	28.3	125.8	33.5	149.0	.02	.03
8mm	8	4.00	103	25.1	111.8	38.7	172.0	50.3	223.6	59.5	264.9	.04	.06
10mm	10	5.00	127	39.3	174.6	60.4	268.7	78.5	349.2	93.0	413.8	.07	.10
15mm	15	7.50	190	88.3	392.9	135.9	604.5	176.7	785.8	209.3	931.0	.14	.21
18mm	18	9.00	229	127.2	565.8	195.7	870.5	254.4	1131.5	301.4	1340.6	.22	.33
20mm	20	10.00	254	157.0	698.5	241.6	1074.7	314.1	1396.9	372.1	1655.1	.23	.34

Eagle B	lue 55D)	DESCRIPTI Trapezoida Non-Reinfo	ON I, prced	7	Vee								
			MATERIAL Polyester		HJ 55 FE No	ARDNESS D DA COMPL	IANT		COEFFI Stainless Steel .40 UHMW	CIENT OF Steel .50) .30	FRICTION	T -2 -3	EMPERATURE RAN 22°F to +176°F 30°C to +80°C	GE
							Worki	ng Load @	Percent Te	ension	,		Weight	Weight
Cross Section	Dimensio (in)	ons w x h* (mm)	Minimu (in)	m Pulley Ø (mm)	4 (Ibs)	% (N)	6 ¹ (lbs)	% (N)	(lbs)	% (N)	1 ((Ibs))% (N)	per foot (lbs)	per metre (kg)
7/10		10 (5	2.12											
2.0		10 X 6.5	3.13	80	22.2	98.8	32.7	145.2	41.0	182.4	47.5	211.2	.05	.07
A/13	1/2 x ⁵ /16	10 x 6.5 13 x 8	4.00	102	22.2 35.5	98.8 158.1	32.7 52.3	145.2 232.4	41.0 65.6	182.4 291.8	47.5 76.0	211.2 337.9	.05	.07
A/13 B/17	¹ /2 x ⁵ /16 ¹¹ /16 x ¹³ /32	10 x 6.5 13 x 8 17 x 11.5	4.00 5.50	80 102 140	22.2 35.5 61.2	98.8 158.1 272.2	32.7 52.3 90.0	145.2 232.4 400.1	41.0 65.6 112.9	182.4 291.8 502.4	47.5 76.0 130.8	211.2 337.9 581.7	.05 .07 .11	.07 .10 .21
A/13 B/17 C/22	¹ / ₂ x ⁵ / ₁₆ ¹¹ / ₁₆ x ¹³ / ₃₂ ²⁹ / ₃₂ x ¹⁷ / ₃₂	10 x 6.5 13 x 8 17 x 11.5 22 x 14.5	3.13 4.00 5.50 7.00	80 102 140 178	22.2 35.5 61.2 108.5	98.8 158.1 272.2 482.7	32.7 52.3 90.0 159.5	145.2 232.4 400.1 709.5	41.0 65.6 112.9 200.3	182.4 291.8 502.4 890.8	47.5 76.0 130.8 231.9	211.2 337.9 581.7 1031.5	.05 .07 .11 .19	.07 .10 .21 .28

Eagle O	paque 80 R	DESCRIPTI Round, Rei	ON nforced	($\overline{\cdot}$								
		HARDNES 80A FDA COM No	s Pliant	CC Sta Ste	DEFFICIEN ainless Stee eel .65 HMW .50	T OF FRIC	TION	TEMPE -22°F t -30°C t	RATURE R. o +150°F to +66°C	ANGE			
						Work	ing Load @	Percent 1	lension			Weight	Weight
Cross Section	Dimensions Ø (mm)	Minimu (in)	m Pulley Ø (mm)	1 (lbs)	% (N)	2 (lbs)	.% (N)	(lbs)	3% (N)	4 (lbs)	% (N)	per foot (lbs)	per metre (kg)
8mm	8	3.13	80	4.3	19.2	10.7	47.6	15.4	68.4	19.0	84.6	.04	.06
10mm	10	3.93	100	9.7	43.1	24.1	107.2	34.6	153.9	42.8	190.3	.06	.09
15mm	15	5.90	150	21.8	97.0	54.2	241.1	77.9	346.4	96.3	428.2	.14	.21

Eagle C)paque 8	30 R	DESCRIPTI Trapezoida	ON , Reinforced	Ve	ee Rie	• dge-Top							
			HARDNES 80A FDA COM No	PLIANT	CC Sta Sta	DEFFICIENT ainless Stee eel .65 HMW .50	f of Frict I .75	TION	TEMPE -22°F to -30°C to	RATURE R/ o +150⁰F o +66⁰C	ANGE			
							Work	ing Load @	Percent T	ension			Weight	Weight
Cross Section	Dimensio (in)	ons w x h* (mm)	Minimu (in)	m Pulley Ø (mm)	(lbs)	% (N)	2 (lbs)	% (N)	3 (Ibs)	% (N)	4 (lbs)	% (N)	per foot (lbs)	per metre (kg)
A/13	1/2 x ⁵ /16	13 x 8	3.13	80	6.2	27.5	16.7	74.4	25.2	111.9	30.8	136.8	.07	.10
A/13 Ridge-To	p	13 x 16	6.30	160	6.2	27.5	16.7	74.4	25.2	111.9	30.8	136.8	.09	.13
B/17	¹¹ / _{16 x} ¹³ / ₃₂	17 x 11	4.38	110	11.0	48.8	29.7	132.0	44.6	198.4	54.5	242.6	.11	.16

48.8

29.7

132.0

44.6

198.4

54.5

242.6

.13

.19

For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com. * w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface. Dimensions are for reference only.

17 x 19.5

7.88

200

11.0

B/17 Ridge-Top

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Eagle O	range 8	85 R	DESCRIPTIO Round, Reir	ON nforced	($\overline{\cdot}$								
	HARDNESS 85A FDA COMPLIAN Yes					DEFFICIENT ainless Stee eel .60 HMW .45	f of Frict I . 70	NON	TEMPER -22°F to -30°C to	RATURE R +150⁰F > +66℃	ANGE			
							Work	ing Load @	Percent Te	ension			Weight	Weight
Cross Section	Dimer (in)	nsions Ø (mm)	Minimur (in)	m Pulley Ø (mm)	(lbs)	% (N)	Work 2 (Ibs)	ing Load @ % (N)	Percent Te 30 (Ibs)	ension % (N)	4 (lbs)	% (N)	Weight per foot (lbs)	Weight per metre (kg)
Cross Section 6mm	Dimei (in)	nsions Ø (mm) 6	Minimur (in) 2.38	m Pulley Ø (mm) 60	(lbs) 0.8	% (N) 3.6	Work 2 (lbs) 2.8	ing Load @ % (N) 12.3	Percent Te 30 (lbs) 5.4	ension % (N) 24.1	4 (lbs) 7.8	% (N) 34.6	Weight per foot (lbs) .025	Weight per metre (kg) . <mark>04</mark>
Cross Section 6mm 1/4"	Dimer (in) 1/4	nsions Ø (mm) 6 6.3	Minimur (in) 2.38 2.50	m Pulley Ø (mm) 60 64	0.8 0.8	% (N) 3.6 3.6	Work 2 (lbs) 2.8 2.8	ing Load @ % (N) 12.3 12.3	Percent Te 30 (lbs) 5.4 5.4	ension % (N) 24.1 24.1	4 (lbs) 7.8 7.8	% (N) 34.6 34.6	Weight per foot (lbs) .025 .03	Weight per metre (kg) .04 .05
Cross Section 6mm 1/4" 5/16"	Dimer (in) 1/4 5/16	nsions Ø (mm) 6 6.3	Minimur (in) 2.38 2.50 3.13	m Pulley Ø (mm) 60 64 79	0.8 0.8 0.8 1.3	% (N) 3.6 3.6 5.6	Work 2 (lbs) 2.8 2.8 4.3	ing Load @ % (N) 12.3 12.3 19.3	 Percent Te 30 (lbs) 5.4 5.4 8.5 	ension % (N) 24.1 24.1 37.6	4 (lbs) 7.8 7.8 12.1	% (N) 34.6 34.6 54.0	Weight per foot (lbs) .025 .03 .04	Weight per metre (kg) .04 .05 .06

8mm		8	3.13	80	1.3	5.6	4.3	19.3	8.5	37.6	12.1	54.0	.04	.06
3/8"	3/8	9.5	3.75	95	1.8	8.0	6.2	27.8	12.2	54.2	17.5	77.8	.06	.09
10mm		10	3.94	100	2.6	11.6	10.1	39.5	17.1	76.1	24.9	110.7	.06	.09
12mm		12	4.75	120	3.3	14.7	11.5	51.2	22.5	100.0	32.3	143.7	.09	.13
1/2"	1/2	12.5	5.00	127	3.2	14.2	11.1	49.4	21.6	96.3	31.1	138.2	.10	.15
9/16"	9/16		5.63	143	4.1	18.0	14.0	62.5	27.4	121.9	39.3	175.0	.13	.19
15mm		15	5.90	150	4.5	20.0	15.5	68.9	30.2	134.3	43.4	193.0	.14	.21
5/8"	5/8		6.25	159	5.0	22.3	17.3	77.1	33.8	150.4	48.6	216.0	.16	.24
3/4"	3/4		7.50	191	7.2	32.1	25.0	111.1	48.7	216.6	69.9	311.1	.23	.34
20mm		20	7.88	200	7.6	33.8	26.3	116.9	51.1	227.3	73.4	326.5	.23	.34

Eagle C	Orange 8	85 R	DESCRIPTI Trapezoida	ON I, Reinforced	Ĺ	• Vee								
		HARDNES: 85A FDA COM Yes	s Pliant	C(St UI	DEFFICIENT ainless Stee eel .60 HMW .45	f of Frict I . 70	fion	TEMPE -22°F to -30°C t	RATURE R∕ o +150°F to +66°C	ANGE				
							Work	ing Load @	Percent T	ension	1		Weight	Weight
Cross Section	Dimensio (in)	ons w x h*	Minimu (in)	m Pulley Ø	(lbc)	% (NI)	2	% (NI)	3 (lbs)	3% (N)	(lbs)	% (N)	per foot	per metre
	("'')	(1111)	(11)	((111))	(lbs) (N) (lbs) (N) 2.6 11.4 6.1 27.0				(103)	(1)	(103)		(IUS)	(NY)
Z/10	(11)	10 x 6.5	2.38	60	2.6	11.4	(IDS) 6.1	27.0	9.7	43.0	12.7	56.6	.05	.07
Z/10 A/13	1/2 x ⁵ /16	10 x 6.5 13 x 8	2.38 3.13	60 80	2.6 4.0	(N) 11.4 17.9	6.1 9.5	27.0 42.4	9.7 15.2	43.0 67.6	12.7 20.0	56.6 89.0	.05	.07 .10
Z/10 A/13 B/17	1/2 x 5/16 11/16 x 13/32	10 x 6.5 13 x 8 17 x 11.5	2.38 3.13 4.38	60 80 110	2.6 4.0 7.0	11.4 17.9 30.9	6.1 9.5 16.5	27.0 42.4 73.3	9.7 15.2 26.2	43.0 67.6 116.7	12.7 20.0 34.5	56.6 89.0 153.7	.05 .07 .11	.07 .10 .16

Eagle Hyfen 85 CXF

Eagle Hyfen 85 CXR

Eagle H	yfen 85	R	DESCRIPT Round, Re	10N einforced	(\cdot								
			HARDNES 85A FDA CON Yes	SS MPLIANT	S S L	COEFFICIEN itainless Ste iteel .60 JHMW .45	NT OF FRIC	TION	TEMP -22°F -30℃	ERATURE F to +150°F to +66°C	RANGE			
							Work	ing Load @	Percent 1	ension			Weight	Weight
Cross Section	Cross Dimensions Ø Section (in) (mm) 3/16			m Pulley Ø (mm)	1 (lbs)	% (N)	2 (lbs)	(N)	(lbs)	3% (N)	(lbs)	1% (N)	per foot (lbs)	per metre (kg)
3/ ₁₆ "	3/16		2.00	51	2.8	12.5	8.4	37.4	11.9	52.9	14.7	65.4	.01	.015
1/4"	1/4	6.3	2.75	70	3.0	13.4	9.5	42.3	14.9	66.3	18.7	83.2	.03	.05
5/ ₁₆ "	5/16		3.44	87	3.7	16.5	12.4	55.2	20.0	89.0	27.8	123.7	.04	.06
3/8"	3/8	9.5	4.13	105	7.3	32.5	26.2	116.5	43.5	193.5	57.4	255.3	.06	.09
1/2"	1/2	12.5	5.50	140	7.3	32.5	26.2	116.5	43.5	193.5	57.4	255.3	.10	.15
9⁄16"	9/16		6.19	157	16.7	74.3	36.6	162.8	58.0	258.0	75.8	337.2	.13	.19
5/8"	5 / 8		6.88	175	16.7	74.3	36.6	162.8	58.0	258.0	75.8	337.2	.16	.24
37.11	3/4		8.25	210	16.7	74.3	36.6	162.8	58.0	258.0	75.8	337.2	.23	.34

Eagle Hy	yfen 85 R	DESCRIPT Trapezoid	TON al, Reinforced		\	• • Twin	7 Ridge-T	op					
		HARDNES 85A FDA CON Yes	SS MPLIANT	C S L	COEFFICIEN itainless Ste iteel .60 JHMW .45	NT OF FRIC	CTION	TEMF -22⁰F -30℃	PERATURE F to +150°F to +66°C	RANGE			
						Work	ing Load @	Percent 1	Fension			Weight	Weight
Cross Section	Cross Dimensions w x h* Minimu Section (in) (in)			(lbs)	% (N)	2 (lbs)	2% (N)	(lbs)	3% (N)	(lbs)	1% (N)	per foot (lbs)	per metre (kg)
3L Twin	¹⁵ / _{16 x} ¹⁷ / ₆₄	3.00	76	14.4	63.9	20.7	91.9	27.8	123.8	35.3	156.8	.10	.15
A Ridge-Top	1/2 x 9/16	6.19	157	17.4	77.4	25.1	111.4	33.8	150.1	42.8	190.2	.09	.13
A Twin	1 ³ /16 x ⁵ /16	3.44	87	16.5	73.3	23.7	105.5	31.9	142.1	40.5	180.0	.15	.22

Section	(in)	(in)	(mm)	(Ibs)	(N)	(lbs)	(N)	(lbs)	(N)	(lbs)	(N)	(lbs)	(kg)
3L Twin	¹⁵ / _{16 x} ¹⁷ / ₆₄	3.00	76	14.4	63.9	20.7	91.9	27.8	123.8	35.3	156.8	.10	.15
A Ridge-Top	1/2 x 9/16	6.19	157	17.4	77.4	25.1	111.4	33.8	150.1	42.8	190.2	.09	.13
A Twin	1 ³ /16 x ⁵ /16	3.44	87	16.5	73.3	23.7	105.5	31.9	142.1	40.5	180.0	.15	.22
B Ridge-Top	²¹ / _{32 x} ¹¹ / ₁₆	7.50	191	25.7	114.4	37.0	164.6	49.8	221.7	63.2	280.9	.13	.19
D	1 ¼ x ¾	12.00	305	77.1	343.0	111.0	493.6	149.5	664.9	189.4	842.4	.38	.57

 $\cdot \cdot \cdot$

Twin

nominal 2.5mm

Add 2.5mm nominal to listed

height for total belt height.

		HARDNES 85A Base, FDA COM No	s 60A Top IPLIANT	Ci St U	OEFFICIEN ainless Stee eel .60 HMW .45	T OF FRICT el .70	TON	TEMPEI -22°F to -30°C to	RATURE R 9 +150⁰F 9 +66℃	ANGE			
Cross Section	Dimensions w x h* (in)	Minimu (in)	ım Pulley Ø (mm)	1 (lbs)	% (N)	Work 2 (Ibs)	ing Load @ % (N)	Percent T 3 (Ibs)	ension % (N)	4 (lbs)	% (N)	Weight per foot (lbs)	Weight per metr (kg)
А	1/2 x ⁵ /16	4.50	114	22.2	98.6	29.6	131.7	36.7	163.1	43.4	193.2	.07	.10
A Twin	1 ³ /16 x ⁵ /16	4.50	114	16.5	73.3	23.7	105.5	31.9	142.1	40.5	180.0	.15	.22
В	²¹ / ₃₂ x ¹³ / ₃₂	5.50	140	32.7	145.7	43.7	194.6	54.1	240.9	64.1	285.3	.11	.16
С	7/8 x ¹⁷ /32	7.00	178	48.9	217.6	65.4	290.7	80.9	359.9	95.9	426.3	.15	.22
D	1 ¹ /4 x ³ /4	12.50	318	96.4	428.7	128.7	572.6	159.4	708.8	188.8	839.7	.38	.57

Vee

For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com. * w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface. Dimensions are for reference only.

DESCRIPTION

Trapezoidal, Reinforced

28

Eagle G	reen 89 RT	DESCRIPT Round, Re	ION inforced, Texture	ed ($\overline{\cdot}$								
		HARDNES 89A FDA COM No	S	C S L	COEFFICIEN tainless Stee teel .40 JHMW .30	IT OF FRIC el .50	TION	TEMP -22°F -30°C	ERATURE I to +150°F to +66°C	RANGE			
						Work	ing Load @	Percent T	ension			Weight	Weight
Cross Section	Dimensions Ø (mm)	Minimui (in)	n Pulley Ø (mm)	1' (lbs)	% (N)	2 (Ibs)	% (N)	3 (Ibs)	% (N)	4 (lbs)	.% (N)	per foot (lbs)	per metre (kg)
5mm	5	2.00	50	1.7	7.4	5.0	22.2	10.2	45.5	15.8	70.1	.02	.03
6mm	6	2.38	60	2.4	10.6	7.2	32.0	14.7	65.5	22.7	101.0	.025	.04
7mm	7	2.75	70	3.3	14.5	9.8	43.5	20.0	89.1	30.9	137.4	.03	.05
8mm	8	3.13	80	4.3	18.9	12.8	56.8	26.2	116.4	40.4	179.5	.04	.06
10mm	10	3.94	100	6.6	29.6	20.0	88.8	40.9	181.9	63.1	280.5	.06	.09
12mm	12	4.75	120	9.6	42.6	28.8	127.9	58.9	262.0	90.8	403.9	.09	.13
15mm	15	5.90	150	15.0	66.5	44.9	199.8	92.0	409.3	141.9	631.1	.14	.21
18mm	18	7.00	180	21.5	95.8	64.7	287.8	132.5	589.4	204.3	908.8	.22	.33

Eagle Green 89 R	DESCRIPTION Trapezoidal, Reinforced
	HARDNESS 89A FDA COMPLIANT No



COEFFICIENT OF FRICTION Stainless Steel .65 Steel .55 UHMW .40

TEMPERATURE RANGE -22°F to +150°F -30°C to +66°C

Working Load @ Percent Tension Weight per foot (Ibs) Weight per metre Dimensions w x h* (mm) Minimum Pulley Ø (in) (mm) Cross Section 1% 2% (Ibs) 3% 4% (lbs) (N) (lbs) (N) (lbs) (kg) A/13 13 x 8 3.70 95 13.4 59.8 51.9 230.8 80.9 360.1 101.3 450.8 .07 .10 51.9 360.1 .13 A/13 Ridge-Top 13 x 16 6.30 160 13.4 59.8 230.8 80.9 101.3 450.8 .09 B/17 17 x 11 4.70 120 19.6 87.2 71.8 319.3 127.1 565.6 166.4 740.7 .11 .16 B/17 Ridge-Top 17 x 19.5 8.10 205 19.6 71.8 319.3 740.7 .13 .19 87.2 127.1 565.6 166.4 C/22 150 .19 .28 22 x 14 5.90 35.0 155.7 131.5 218.8 218.8 873.8 280.5 1248.3 22 x 24.5 11.00 280 35.0 131.5 973.8 .28 .41 C/22 Ridge-Top 155.7 218.8 218.8 280.5 1248.3 C/22 Ridge-Top 22 x 28.5 11.00 280 35.0 155.7 131.5 218.8 218.8 973.8 280.5 1248.3 .32 .47

Eagle B	eige 95 R	DESCRIPT Round, Re	10N einforced	($\overline{\cdot}$								
		HARDNES 95A FDA CON Yes	SS NPLIANT		COEFFICIEN itainless Ste iteel .45 JHMW .35	NT OF FRIC	TION	TEMF -22⁰F -30℃	PERATURE I to +150°F to +66°C	RANGE			
						Work	ing Load @	Percent	Tension			Weight	Weight
Cross Section	Dimensions Ø (mm)	Minimu (in)	m Pulley Ø (mm)	1 (lbs)	% (N)	2 (lbs)	% (N)	(lbs)	3% (N)	(lbs)	4% (N)	per foot (lbs)	per metre (kg)
5mm	5	2.38	60	1.5	6.7	2.7	12.2	4.1	18.1	5.3	80.5	.02	.03
8mm	8	3.75	96	3.8	17.1	7.0	31.2	10.4	46.2	13.6	205.5	.04	.06
10mm	10	4.75	120	6.0	26.7	11.0	48.8	16.2	72.2	21.2	321.1	.06	.09
15mm	15	7.10	180	13.5	60.1	24.7	109.7	36.5	162.5	47.8	722.8	.14	.21

Eagle B	eige 95	R	DESCRIPT Trapezoid	ION al, Reinforced	Ć	• /ee								
			HARDNE 95A FDA CON Yes	55 Apliant		COEFFICIEN Stainless Ste Steel .45 JHMW .35	NT OF FRIC	TION	TEMPI -22°F t -30°C	ERATURE F to +150°F to +66°C	RANGE			
							Worki	ing Load @	Percent T	ension			Weight	Weight
Cross Section	Dimensio (in)	ns w x h* (mm)	Minimu (in)	m Pulley Ø (mm)	1 (Ibs)	% (N)	2' (Ibs)	% (N)	3 (Ibs)	% (N)	(lbs)	1% (N)	per foot (lbs)	per metre (kg)
3L	³ / _{8 x} ⁷ / ₃₂		2.63	67	11.1	49.2	25.8	114.8	37.9	168.4	46.6	207.2	.03	.05
3L Cogged	³ / _{8 x} ⁷ / ₃₂		2.38	60	11.1	49.4	25.8	114.8	37.9	168.6	46.6	207.3	.03	.05
Z/10		10 x 6.5	2.81	72	12.5	55.6	29.0	129.0	42.6	189.5	52.4	233.1	.05	.07
A/13	1/2 x 3/8	13 x 8	3.75	96	20.6	91.6	48.0	213.5	70.5	313.6	86.7	385.6	.07	.10
A/13 Cogged		13 x 8	3.13	80	20.6	91.6	48.0	213.5	70.5	313.6	86.7	385.6	.06	.09
B/17	²¹ / ₃₂ x ¹ / ₂	17 x 11	5.19	132	35.5	157.9	83.0	369.2	121.7	541.3	149.8	666.3	.11	.16
B/17 Cogged		17 x 11	4.38	110	35.5	157.9	83.0	369.2	121.7	541.3	149.8	666.3	.10	.15
C/22	7/8 x 5/8	22 x 14	6.63	168	61.9	275.3	144.5	642.7	212.0	943.0	260.9	1160.5	.19	.28
C/22 Cogged		22 x 14	5.50	140	61.9	275.3	144.5	642.7	212.0	943.0	260.9	1160.5	.18	.27

Eagle H	yfen 95 R	DESCRIPTION Trapezoidal, Reinforced	Vee					
		Hardness 95A FDA COMPLIANT Yes	COEFFICIENT Stainless Stee Steel .45 UHMW .35	T OF FRICTION 1.55	TEMPERATURE R. -22°F to +150°F -30°C to +66°C	ANGE		
				Working Load @	Percent Tension		Weight	Weight
Cross Section	Dimensions w x h* (in)	Minimum Pulley Ø (in) (mm)	1% (Ibs) (N)	2% (Ibs) (N)	3% (Ibs) (N)	4% (Ibs) (N)	per foot (lbs)	per metre (kg)

		``				× • • •		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				(103)	(Kg)	
А	1/2 x 3/8	4.50	114	22.3	99.2	32.4	144.2	41.6	185.2	50.4	224.1	.07	.10	
A Cogged	1/2 x 3/8	3.50	89	22.3	99.2	32.4	144.2	41.6	185.2	50.4	224.1	.06	.09	
В	²¹ / ₃₂ x ¹ / ₂	6.00	152	32.9	146.5	47.9	213.0	61.5	273.5	74.4	330.9	.11	.16	
B Cogged	²¹ / ₃₂ x ¹ / ₂	4.50	114	32.9	146.5	47.9	213.0	61.5	273.5	74.4	330.9	.10	.15	
С	7/8 x ⁵ /8	7.50	191	49.2	218.8	71.5	318.2	91.9	408.6	111.2	494.4	.19	.28	
C Cogged	7/8 x ⁵ /8	6.50	216	49.2	218.8	71.5	318.2	91.9	408.6	111.2	494.4	.18	.27	

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Eagle Can Cable

			Round, Reinfo	rced										
MAT Polye Engir			MATERIAL Polyester; Red Engineered Po	is an blymer	HARDNES See Chart	S	FDA CON All except	APLIANT Red		TEMP (RED -22°F -30°C	ERATURE ONLY) to +150°F to +66°C	RANGE	TEMPERA (ALL OTHE -22°F to + -30°C to +	ïURE RANGE ERS) 176⁰F ∙80℃
							Worki	ng Load @	Percent T	ension	,		Weight	Weight
Product	Durometer Hardness	Dimension Ø	Minimum (in)	n Pulley Ø (mm)	(lbs)	% (N)	(lbs)	% (N)	3 (Ibs)	% (N)	4 (Ibs)	% (N)	per foot (lbs)	per metre (kg)
Red 50D CC LCF	50D	3/8"	10.00	254	23.8	105.9	57.8	257.2	104.3	463.7	152.2	677.2	.06	.09
Blue 55D CC	55D	3/8"	12.00	305	18.1	80.5	42.8	190.4	79.4	353.2	118.4	526.6	.06	.09
Natural 55D CC	55D	3/8"	12.00	305	18.1	80.5	42.8	190.4	79.4	353.2	118.4	526.6	.06	.09
Green 63D CC	63D	3/8"	12.00	305	18.1	80.5	42.8	190.4	79.4	353.2	118.4	526.6	.06	.09
Natural 63D CC	63D	3/8"	12.00	305	18.1	80.5	42.8	190.4	79.4	353.2	118.4	526.6	.06	.09
Blue 55D Aramid CC	55D	9.5mm	12.00	305	41.7	185.5	149.1	663.2	281.1	1250.4	N/A	N/A	.06	.09

For technical assistance and drive design help, contact Applications Engineering at ae@fennerdrives.com. * w (width) is the widest part of the belt. h (height) is the tallest part of the belt, NOT including the belting top surface. Dimensions are for reference only.

DESCRIPTION

Engineering Data — Imperial Pulley Sections

V-Belts

All polyurethane V-belts in the "classical" profiles (A, B, C, and D), and light duty 3L cross section are designed to fit RMA compliant pulleys as per the groove details illustrated in Fig. 1 below.



Cross Section	Datum Diameter Range	Groove Angle	b _g (in.)	^h g Min (in.)	S _g (in.)	S _e (in.)	
A/13	Up thru 5.4"	34° ±0.33°	0.494 ±0.005	0.460	0.625 ±0.025	0.375	+0.090
	Over 5.4"	38° ±0.33°	0.504				-0.062
B/17	Up thru 7.0"	34° ±0.33°	0.637	0.550	0.750 +0.025	0.500	+0.120
5, ,	Over 7.0"	38° ±0.33°	0.650	0.000	0.750 20.025	0.000	-0.065
	Up thru 7.99"	34° ±0.33°	0.879				+0 160
C/22	8.0" thru12.0"	36° ±0.33°	0.887 ±0.007	0.750	1.000 ±0.025	0.688	0.070
	Over 12.0"	38° ±0.33°	0.895				-0.070
	Up thru 12.99"	34° ±0.33°	1.259				+0.220
D/32	13.0" thru 17.0"	36° ±0.33°	1.271 ±0.008	1.020	1.438 ±0.025	0.875	0.000
	Over 17.0"	38° ±0.33°	1.283				-0.080
	2.2" thru 3.1"	34° ±0.33°					10.062
3L	3.2" thru 4.2"	36° ±0.33°	0.364 ±0.005	0.406	0.500 ±0.025	0.313	+0.062
	Over 4.2"	38° ±0.33°					-0.032

Dimensions in inches unless otherwise indicated.

Round Belts

Round Eagle[®] belting is commonly run in pulleys with a round profile, see Fig. 2. In the absence of round groove pulleys, round belts can also be used in pulleys with vee grooves, Fig. 3. The table at right shows the dimensional data when a round belt is used in a V-groove.



Figure 3

Pulley	Pulley Diameter	Groove	Round		Dimensions	
Size	(inches)	Angle	Belt	w	а	b
2L	Under 1.50"	32°	3/16"	.240	.010	.084
2L	1.50" to 1.99" O.D.	34°	3/16"	.243	.016	.078
			1⁄4"	.243	.153	028
2L	2.00" to 2.50" O.D.	36°	3/16"	.246	.020	.074
			1⁄4"	.246	.151	026
2L	Over 2.50" O.D.	38°	3/16"	.250	.020	.074
			1⁄4"	.250	.146	021
3L	Under 2.20" O.D.	32°	1/4"	.360	049	.174
			5/16"	.360	.094	.062
3L	2.20" to 3.19" O.D.	34°	1/4"	.364	043	.168
			5/16"	.364	.094	.062
3L	3.20" to 4.20" O.D.	36°	1/4"	.368	037	.062
			5/16"	.368	.095	.061
3L	Over 4.20" O.D.	38°	1/4"	.372	031	.156
			5/16"	.372	.095	.061
A/13	2.60" to 5.40" D.D.	34°	5/16"	.494	118	.274
			3/8"	.494	.019	.168
			1⁄2"	.494	.297	047
A/13	Over 5.40" D.D.	38°	5/16"	.504	097	.253
			3/8"	.504	.030	.157
			1⁄2"	.504	.286	.036
B/17	4.60" to 7.00" D.D.	34°	1⁄2"	.637	.062	.188
			9/16"	.637	.199	.082
			5/8"	.637	.340	027
B/17	Over 7.00" D.D.	38°	1/2"	.650	.074	.176
			9/16"	.650	.200	.081
			5/8"	.650	.331	018
C/22	7.00" to 7.99" D.D.	34°	5/8"	.879	056	.369
			3/4"	.879	.218	.157
C/22	8.00" to 12.00" D.D.	36°	5/8"	.887	041	.354
			3/4"	.887	.222	.153
C/22	Over 12.00" D.D.	38°	5/8"	.895	027	.340
			3/4"	.895	.226	.149

Note: above dimensions are belt fit in groove under no tension. Dimensions in inches unless otherwise indicated.

Flat Belts

All flat belts have a natural tendency to move laterally. Therefore a flat or straight pulley is not recommended, as the belt would walk off the pulley. To keep the belt in the centre of the pulley it must have a crown. Fig. 4 illustrates a round crown and is the preferred method. A modified round crown as illustrated in Fig. 5 is also acceptable. A flat pulley with guide flanges (Fig. 6) is not recommended. Even with the guide flanges the belt will move laterally and potentially could climb up onto them.





Figure 5

NOT SUITABLE *Figure 6*

Engineering Data — Metric Pulley Sections

V-Belts

All polyurethane V-belts in the "classical" profiles, i.e. Z/10, A/13, B/17, C/22, and D/32, are designed to fit ISO and DIN 2215 compliant pulleys as per the groove details illustrated in Fig. 1 below.



Cross Section	Datum Diameter Range	Groove Angle	b _g (mm)	^h g Min (mm)	S _g (mm)	S _e (mm)
Z/10	Up thru 80mm Over 80mm	34° ±1° 38° ±1°	9.7	11	12 ±0.3	8 ±0.6
A/13	Up thru 118mm Over 118mm	34° ±1° 38° ±1°	12.7	14	15 ±0.3	10 ±0.6
B/17	Up thru 190mm Over 190mm	34° ±1° 38° ±1°	16.3	18	19 ±0.4	12.5 ±0.8
C/22	Up thru 315mm Over 315mm	34° ±1° 38° ±30′	22	24	25.5 ±0.5	17 ±1.0
D/32	Up thru 500mm Over 500mm	36° ±30′ 38° ±30′	32	28	37 ±0.6	24 ±2.0

Dimensions in millimetres unless otherwise indicated.

Round Belts

Round Eagle[®] belting is commonly run in pulleys with a round profile, see Fig. 2. In the absence of round groove pulleys, round belts can also be used in pulleys with vee grooves, Fig. 3. The table at right shows the dimensional data when a round belt is used in a V-groove.









Figure 3

Pulley	lley Pulley Diameter Groove		Round	Dimensions				
Size	O.D. (mm)	Angle	Belt	w	а	b		
Z/10	Up thru 80mm	34°	7	9.7	-0.39	3.89		
			8	9.7	1.82	2.18		
			9.5	9.7	5.14	-0.39		
Z/10	Over 80mm	38°	7	9.7	0.17	3.34		
			8	9.7	2.19	1.81		
			9.5	9.7	5.25	-0.50		
A/13	Up thru 118mm	34°	9.5	12.7	0.23	4.52		
			10	12.7	1.33	3.67		
			12	12.7	5.75	0.25		
A/13	Over 118mm	38°	9.5	12.7	0.90	3.85		
			10	12.7	1.91	3.09		
			12	12.7	5.98	0.02		
B/17	Up thru 190mm	34°	12	16.3	-0.14	6.14		
			15	16.3	6.50	1.00		
			16	16.3	8.71	-0.71		
B/17	Over 190mm	38°	12	16.3	0.76	5.24		
			15	16.3	6.87	0.63		
			16	16.3	8.90	-0.90		
C/22	Up thru 315mm	34°	20	22	8.22	1.78		
C/22	Over 315mm	38°	20	22	9.00	1.23		

Note: above dimensions are belt fit in groove under no tension. Dimensions are in millimetres unless otherwise indicated.

Flat Belts

All flat belts have a natural tendency to move laterally. Therefore a flat or straight pulley is not recommended, as the belt would walk off the pulley. To keep the belt in the centre of the pulley it must have a crown. Fig. 4 illustrates a round crown and is the preferred method. A modified round crown as illustrated in Fig. 5 is also acceptable. A flat pulley with guide flanges (Fig. 6) is not recommended. Even with the guide flanges the belt will move laterally and potentially could climb up onto them.



Belt Installation Tension

All belts require a certain amount of tension to function properly in the application. The specific installation tension is determined from several factors including belt type, construction and working load. Belt details are in the Technical Data section of this catalog and working load is derived from your application.

Non-Reinforced Belting: When non-reinforced belting is stretched and released, elasticity is the property that brings the material back to its original shape. This "memory" is what gives our non-reinforced belting its self-tensioning properties. When a non-reinforced belt is first installed (stretched) the material does not return to 100% of its original length and continues to lose elasticity over its life span. This loss in elasticity is evident as tension decay. To overcome tension decay effects, a non-reinforced belt requires a relatively high installed tension. Installation tensions ranging from 6% to 10% will normally be sufficient for most applications. If higher tensions are required, the application may exceed the belt's load capacity.

Reinforced Belting: Reinforced belts contain a reinforcing tensile member which increases the belt's modulus of elasticity. This reduces the belt's ability to stretch and minimizes tension decay. This allows a reinforced belt to carry a greater load than a non-reinforced belt. Since an endless reinforced belt is essentially a fixed length, it cannot be stretched on like a non-reinforced belt. Consequently, reinforced belts require a mechanical take-up mechanism to apply the appropriate installation tension as well as accommodating any eventual small amount of tension decay that may occur. This mechanism should accommodate at least 4% of the belt's length.

Belt Installation Length

In this section, we will refer to two different lengths that are defined as follows:

1. Reference Length: The length determined by taking a measuring tape and following the path of the belt around all of the pulleys, or through computer aided design (CAD) techniques. This length may also be obtained from the equation below. Take up mechanisms should be adjusted to the minimum position to allow for maximum adjustment of the belt prior to taking or calculating length. Note: this equation applies to two-pulley drives only.

L = 2C + $\frac{\pi}{2}$ (D + d) + $\frac{(D - d)^2}{4C}$	where:	L = reference length C = center of pulley shaft to center of pulley shaft distance
		D = pitch diameter of large pulley
		d = pitch diameter of small pulley

2. Cut Length: The length the belt is cut to prior to welding.

Apply the following formulas to determine the Cut Length from Reference Length:

Butt weld non-reinforced: Cut Length = Reference Length ÷ (1 + % tension) Example: Reference Length for a non-reinforced belt is 44" (1120mm), requires 8% tension and will be butt welded. Cut Length is calculated on right.	Cut Length = 44" ÷ (1 + 8%) = 44" ÷ 1.08 = 40.7"	Cut Length = 1120mm ÷ (1 + 8%) = 1120mm ÷ 1.08 = 1037mm
Overlap weld reinforced: Cut Length = Reference Length + 1.5" (38mm) Example: Reference Length for a reinforced belt is 44" (1120mm) and will be overlap welded. The overlap weld consumes 1.5" (38mm) of belt length. Cut Length is calculated on right.	Cut Length = 44" + 1.5" = 45.5"	Cut Length = 1120mm + 38mm = 1158mm
Butt weld reinforced: Cut Length = Reference Length Example: Reference Length for a reinforced belt is 44" (1120mm) and will be butt welded. The weld consumes a negligible amount of belt length, consequently, Cut Length and Reference Length are the same. Cut Length is calculated on right.	Cut Length = 44"	Cut Length = 1120mm

Temperature

The temperature range of polyurethane belting is determined by the thermoplastic resin. Like all thermoplastic resins its physical properties change with changes in temperature. At higher temperatures the material will soften, lose strength and can elongate excessively to the point of premature failure. At colder temperatures the material will become more brittle and stiff which can result in cracking. The temperature ranges are guidance and listed under each individual belt type in the Technical Data section.

Minimum Pulley Diameter

The most common serious mistake in designing belt drives is the selection of a pulley diameter that is too small. In most cases, non-reinforced belts can operate on smaller diameter pulleys than belts with a reinforcing tensile member. Reinforced belts require a larger pulley diameter to prevent premature flex fatigue failure of the tensile member. Listed under each individual belt type in the Technical Data section is the recommended minimum pulley diameter. Smaller diameters can be used only if a reduction in belt service life is acceptable.

Belt Profile Tolerance

Kound Beits:	Flat and V-Belts:
Up to and including 3/16" (5 mm) diameter: ± 0.005" (± .127m	m) All profiles: ± 0.015" (± .381mm)
Over 3/16" (5 mm) up to and including 1/4" (6.3 mm) diameter: ± 0.007" (± .178m	ım)
Over 1/4" (6.3 mm) up to and including 9/16" (14 mm) diameter: ± 0.010" (± .254m	m) If a tighter tolerance is required, consult Fenner Drives
Over 9/16" (14 mm) in diameter: ± 0.012" (± .305m	m) Applications Engineering Group with your requirements.

33 Engineering Data — Selection Procedure, Conveying

- 1. Refer to the Technical Data chart for the belt material and cross section selected.
- 2. Use the following formula that meets your application requirements (Note: if belt supported by rollers use .17 for µ):

a. Horizontal Transport with Slider Bed

$$T_e = W_t \times \mu + B_{wt}$$

- b. Horizontal Transport with Slider Bed and Product Accumulation $T_e = W_t \times \mu + B_{wt} + A_{wt}$
- c. Incline or Decline Transport with Slider Bed $T_e = \underline{W_t} \times (H_t + \mu \times \sqrt{C^2 + H_t^2}) + B_{wt}$
- d. Incline or Decline Transport with Slider Bed and Product Accumulation
- 3. Determine Tight Tension (T₁). Flat and round belts: $T_1 = T_0 \times 2$

T_e = Effective Tension

Where:

- W_t = Total Weight on Conveyor
- C = Conveyor Centre Distance
- B_{wt} = Belt weight/unit length × C
- A_{wt} = Accumulating weight × μ
- (where μ' is the COF between belt and product)
- H_t = Incline or decline height = COF on slider bed material from chart
- $T_e = \frac{W_t}{C} \times (H_t + \mu \times \sqrt{C^2 + H_t^2}) + B_{wt} + A_{wt}$
- V-belts: $T_1 = T_e \times 1.25$
- 4. Refer to the Technical Data chart for the material and cross section selected and compare T₁ to the Working Load at maximum % tension. If only one belt is desired, T₁ may not be greater than the Working Load at maximum % tension. If more than one belt is required, divide T₁ by the Working Load at maximum % tension to arrive at number of belts. Round up to the nearest whole number of belts.
- 5. Find load per belt by dividing T₁ by number of belts. From the Technical Data chart, determine the percent installed tension for the load per belt.

To determine the required belt length, please refer to the "Belt Installation Length" section on the previous page.

Engineering Data — Selection Example														
Eagle Or Eagle Cle	ange 85 ear 85	DESCRIPTION Round, Non-Reinfor	rced	HARDNES 85A FDA COM Yes	s Pliant		coer Stai Stee UH	FFICIENT of FRI inless Steel el .60 MW .45	.70		-22°F to - -30°C to	te RANGE +150°F +66°C		
Cross Section	Dimensi (in)	ons Ø (mm)	Minimum (in)	ı Pulley Ø (mm)	49 (Ibs)	% (N)	Work 6ª (Ibs)	ting Load @ % (N)	Percent Ten 8% (Ibs)	sion ∕₀ (N)	10 (Ibs)	% (N)	Weight per foot (lbs)	Weight per metre (kg)
6 mm		6	1.88	48	1.7	7.6	2.6	11.6	3.5	15.6	4.3	19.1	.025	.04
1/4	1/4		2.00	51	1.9	8.5	2.9	12.9	3.9	17.3	4.8	21.4	.03	.04

1. Refer to the Technical Data chart for the belt material and cross section selected.

Example 1

Type of belt being considered = Eagle Orange 85 in 1/4" round Head-to-tail center distance (C) = 10 feet Incline or decline = none Product accumulation on belt(s)? = no Total weight on belt(s) = 15 lbs. Type of belt support = UHMW slider bed

- 2. Horizontal Transport with Slider Bed. Since the belt will run in UHMW slider bed the COF(µ) of .45 is used from Technical Data chart. From the chart the belt weight is .03 lbs/ft giving a total belt weight of .30 lbs (.03 x 10'). $T_e = 15 \text{ lbs} \times .45 + .30 = 7.05$
- 3. Determine Tight Tension (T₁). round belts $T_1 = 7.05 \times 2 = 14.10$
- 4. Refer to the Technical Data chart for the material and cross section selected and compare T₁ to the Working Load at 10% tension. If only one belt is desired, T₁ may not be greater than the Working Load at 10% tension. If more than one belt is required, divide T₁ by the Working Load at 10% tension to arrive at number of belts. Round up to the nearest whole number of belts. 1/4" round rated 4.8 lbs @ 10% tension. 14.10 ÷ 4.8 = 2.94 call 3 belts
- 5. Find load per belt by dividing T_1 by number of belts. From the Technical Data chart, determine the percent installed tension for the load per belt. Load/belt = 14.10 ÷ 3 = 4.70 lbs corresponding installed tension = 9.8%

Example 2

- Eagle Orange 85 in 6mm round Head-to-tail center distance (C) = 3 Metres Incline or decline = none Product accumulation on belt(s)? = no Total weight on belt(s) = 6 kgType of belt support = UHMW slider bed
- 2. Horizontal Transport with Slider Bed. Since the belt will run in UHMW slider bed the $COF(\mu)$ of .45 is used from Technical Data chart. From the chart the belt weight is .04 kgs/M giving a total belt weight of .12 kg (.04 x 3M). $T_e = 6 \text{ kg} \times .45 + .12 = 2.82 \text{ kg}$
- 3. Determine Tight Tension (T₁). round belts $T_1 = 2.82 \times 2 = 5.64$ kg = 55.3 Newtons (5.64 × 9.81)
- 4. Refer to the Technical Data chart for the material and cross section selected and compare T_1 to the Working Load at 10% tension. If only one belt is desired, T_1 may not be greater than the Working Load at 10% tension. If more than one belt is required, divide T_1 by the Working Load at 10% tension to arrive at number of belts. Round up to the nearest whole number of belts. 6mm round rated 19.1 kg @ 10% tension. 55.3 ÷ 19.1 = 2.89 call 3 belts
- 5. Find load per belt by dividing T₁ by number of belts. From the Technical Data chart, determine the percent installed tension for the load per belt. Load/belt = 55.3 N ÷ 3 = 18.4 Newtons corresponding installed tension = 9.4%

Polyurethane is extremely resistant to many industrial oils and chemicals, but not all. Below are a wide variety of oils and chemicals found in industrial applications. Consult Fenner Drives Applications Engineering group for assistance on projects with design criteria outside these parametres, or obtain a sample belt and determine its compatibility in the precise operating conditions.

Acids	Rating
Acetic, 5%	С
Boric, 4%	С
Chromic	С
Citronic	С
Formic	С
HCI	В
Hydrochloric, 10%	С
Lactic	С
Nitric, >1%	С
Oleic	С
Phosphoric	С
Sulfuric, <20%	В
Sulfuric, >20%	С

Alkalines	Rating
Ammonia, >10%	С
Detergent, 1%	Α
Potassium Hydroxide	В
Soap, 1%	Α
Sodium Hydroxide, 10%	С

Aqueous Solutions	Rating
Aluminum Chloride, 10%	С
Ammonium Chloride, 10%	С
Bleaching Agent, 40%	В
Bleaching Agent, 100%	С
Calcium Chloride, 40%	С
Caustic Soda, 10%	В
Cola	Α
Ferric Chloride, 10%	С
Hydrogen Peroxide, 3%	В
lsopropanol, 50%	С
Magnesium Chloride, 30%	С
Potassium Chloride, 40%	С
Potassium Dichromate, 10%	С
Potassium Permanganate, 5%	С
Sea Water	В
Sodium Bisulfate, 10%	С
Sodium Chloride, 10%	С
Sodium Hypochlorite, 5%	С
Sodium Thiosulfate, 20%	Α
Water, Deionized	Α

Fuels	Rating
ASTM Fuel A	Α
ASTM Fuel B	С
ASTM Fuel C	С
Diesel Fuel	В
Gasoline, Premium	С
Gasohol (10-15% Methanol)	С
Jet Fuel, JP-4	Α
Kerosene	Α
Oils	Rating
ASTM Oil #1	Α
ASTM Oil #2	Α
ASTM Oil #3	Α
Brake Fluid (ATE or ATS)	С
Gear Box Oil (SAE 90)	Α
Hydraulic Fluid	С
Hydraulic/Water Emulsion	С
Mineral Oil	Α
Motor Oil	Α
Parafin Oil	Α
Petroleum (Texas Sour Crude)	Α
Power Steering Fluid	В
Skydrol 500 Oil	С
Transmission Oil A	Α
Greases	Rating
Calcium Grease	В
Sodium Grease	В
Teflon Grease	Α
Miscellaneous	Rating
Dioctyl Phthalate (DOP)	A
Ethylene Chloride	С
Ethylene Dichloride	С
Ethylene GlycoWater 50/50	С
Household Cleaner	В
Naptha	Α
Silage (Silo) Juice	С
Natural Perspiration	В
Tincture of Iodine	С
Tricresyl Phosphate	С

Solvents	Rating
Acetone	С
Aniline	С
Benzene	С
Benzyl Alcohol	С
Butane	С
Butyl Acetate	С
Butyl Alcohol	С
Carbon Tetrachloride	С
Chlorobenzane	С
Chloroform	С
Cyclohexane	С
Ethanol	С
Ether	С
Ethyl Acetate	С
Freon 11, 12, 22	С
Freon 113	A
Glycerine, Glycerol, Glycol	A
Heptane	В
Hexane	С
Isopropyl Alcohol	С
Methanol	С
Methyl Acetate	С
Methyl Ethyl Ketone	С
Methyl Glycol	С
Methylene Chloride	С
N-Methyl Pyrrolidone	С
Perchloroethylene	С
Pyridine	С
Turpentine	A
Tetrachloroethylene	С
Tetrahydrofuran	С
Toluene	С
Trichloroethylene	С
Xylene	С

Rating Key

- A Fluid has little or no effect
- B Fluid has minor to moderate effect
- C Fluid has severe effect

Frequently Asked Questions

Are all of the Eagle[®] Belting products food grade?

Many of our belts are manufactured from FDA compliant materials. For a complete listing, see either the Product Range Chart (pg 16) or the Technical Data Section.

I have an application involving 200°F/93°C temperature. Can I use your polyurethane belting?

Our Eagle polyurethane products are usually limited to 150°F/66°C (see Technical Data for details). At higher temperatures the polyurethane softens and loses strength, resulting in excessive stretch. However, Fenner Drives' PowerTwist Plus[®] V-Belts should be considered as an option.

My application involves washdown. What effect will it have on the belt?

Polyurethane is resistant to water and many industrial chemicals, but not resistant to all. Consult the Chemical Resistance Chart in this catalog or contact Fenner Drives Applications Engineering group with the contaminants present and we will make a recommendation.

The standard profiles shown do not appear to suit my needs. Do you make special profiles?

Yes! At Fenner Drives, we welcome the opportunity. Contact Fenner Drives Applications Engineering group at ae@fennerdrives.com for assistance.

For any questions about our extensive line of products, just call 1-800-243-3374 or +44 (0) 870 7577007 and your Inside Sales Specialist will help you.

Are the Polyurethane and Polyester belting products RoHS compliant?

Yes. All of the Eagle Polyurethane and Polyester Belting products are RoHS compliant.

I plan on using a B/17 section polyurethane belt. Will your belt fit pulleys that I can buy from numerous power transmission distributors?

Yes. All of our "classical" polyurethane belts, i.e. Z/10, A/13, B/17, C/22 and D/32, are designed to fit RMA/BS/DIN/ISO compliant pulleys.

Why can't I butt weld your reinforced polyurethane belting?

You can, but it will be necessary to drill back the reinforcement. Follow butt welding instructions available at www.fennerdrives.com.

Do I need some take-up adjustment when using your polyurethane belts?

When using non-reinforced polyurethane belting, take-up is not required. However, all reinforced type belting does require take-up. One good option is our T-Max Belt & Chain Tensioner[®] with a PowerMax^{**} Idler Pulley.

On my conveying application, the product being moved could occasionally accumulate. What belt do you recommend for this?

Our Eagle Green 89T with its textured surface provides a lower coefficient of friction, ideal for applications where product accumulation can occur.

Count on Fenner Drives. We've got the right product for your application.



Fenner Drives is a proven leader in the design and manufacture of problem-solving power transmission and motion transfer components. Recognized widely for our expertise and innovation in manufacturing technology, we consistently blend reliability, quality and value in our products. As part of our commitment to provide unsurpassed technical support and service, we maintain extensive engineering, development and testing facilities. Products are available globally through sales and warehouse facilities in Leeds, UK and Manheim, USA.

Visit us at www.fennerdrives.com



311 West Stiegel Street Manheim, PA 17545-1747

www.fennerdrives.com TEL: 800-243-3374 TEL: 717-665-2421 FAX: 717-665-2649 Hudson Road Leeds, LS9 7DF UK

www.fennerdrives.com TEL: +44 (0)870 7577007 TEL: +44 (0)113 2493486 FAX: +44 (0)113 2489656 Information subject to change without prior notification. Visit www.fennerdrives.com/catalogs for the most current information.









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